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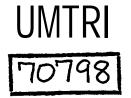
WORK MANAGEMENT MANUAL MATERIAL HANDLING FOR SHIPYARDS BETHLEHEM STEEL CORP,/SPARROWS POINT

Transportation
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WORK MANAGEMENT MANUAL

MATERIAL HANDLING for SHIPYARDS

Prepared for

SNAME panel SP-8 Marad Task ES-8-15 Under direction of H.B. Magnard & Co.

Prepared by

Industrial Engineering Department
Bethlehem Steel Corporation
Marine Construction Group
Sparrows Point, Maryland
July, 1983

Transportation

Research Institute

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SECTION 1 SCOPE

1.1 PLANT AREA, DEPARTMENT

- A. Plant Area
 - 1. Bethlehem Steel Corporation.
 Marine Construction Group
 Sparrows Point, Maryland
- B. Departments
 - 1. Lead Department Transportation (86 Dept.)
 - 2. Service Department Maintenance/Garage (87 Dept.)

1.2 PRODUCTS AND COMPONENTS

- A. Product To develop engineered labor standard data for material handling with mobile equipment.
- B. Components Types of Mobile Equipment and General Guidelines
 1. Fork Truck A truck with a mast containing a two prong fork
 arrangement that may be tilted forward or back and raised up or
 down for the purpose of picking UP pallet loads of material.
 (see fig. 1 in Section 3.2)

General Guidelines:

a. Clark 500 : 5000 lbs rated capacity at. 24' Load Center Traveling Speeds: (0% Gradeability)

Loaded - 12.4 mph Empty - 12.5 mph Lifting Speeds: Loaded - 89 ft/min Empty - 93 ft/min Lowering Speeds: Loaded - 73 ft/min Empty - 80 ft./min

b. Clark 500: 10000 Ibs rated capacity at 24' load center Traveling Speeds: (0% Gradeability)

Loaded - 16.0 mph Empty - 17.4 mph Lifting Speeds: Loaded - 72 ft/min Empty - 79 ft/min Lowering Speeds: Loaded - 74 ft/min Empty - 80 ft/min

2. Straddle Carrier - A unit shaped much like an inverted channel. The lifting device consists of longitudinal angles that can pick UP special pallets, bolsters, or unit loads of a standard width* All lifts are picked UP at ground level. The riding cab is elevated. (see fig. 2 in Section 3.2)

SCOPE

General Guidelines:

a. Clark Series 95: 40,000 Ibs capacity
Traveling Speeds: (0% Gradeability)

Loaded - 15.0 mph Empty - 17.3 mph Lifting Speeds: Loaded - 75 ft/min Empty - 78 ft/min Lowering Speeds: Loaded - 61 ft/min Empty - 70 ft/min

b. Clark Series 95: 60,000 lbs capacity
 Traveling Speeds: (0% Gradeability)

Loaded - 13.7 mph Empty - 15.8 mph
Lifting Speeds: Loaded - 65 ft/min Empty - 68 ft/min
Lowering Speeds: Loaded - 53 ft/min Empty - 61 ft/min

3. Transporter - A multi-wheeled jacking platform, The standard tyre has an underslung cab at each end and may be driven from either end.

General Guidelines:

a. Scheuerle: 200 tons loaded capacity

1. Fork Truck Traveling Speeds: (0% Gradeability)
1. Fork Truck Truck with a mast containing a two prons fork arransement that may be tilted forward or back and raised up or down for the purpose of picking up pallet loads of material. (see fig. 1 in Section 3.2)

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SECTION 2 STANDARD PRACTICES AND POLICIES

2.1 CARE OF EQUIPMENT AND WORK AREA

A. Drivers

- 1. At the beginning of each shift, routinely check the oil levels operation of lifting devices, brakes, and fills equipment with fuel.
- 2.All repairs to equipment done by Sarage personnel. (87 dept)
- 3. Should keep cab relatively free of debris and make sure cab is secure at the end of the shift (all doors and windows closed tightly).

B. Garage Personnel (Maintenance)

- 1. At the beginning of each shift remove necessary tools from the toolbox. All tools, are to locked up whenever man is not in the shop area.
- 2. Any tool in need of repair are taken to the appropriate toolroom.
- 3. Tools are locked up in the toolroom at the end of the shift.

2.2 QUALITY CONTROL AND INSPECTION

A. Transportation

- 1. Drivers are responsible to see that lifts are delivered to the correct location. The time that the lift is delivered is recorded on the daily transportation log.
- 2. Transportation supervision only inspects lifts and daily transportation loss when problems or complaints are noted by supervisors in other departments,

B. Garage

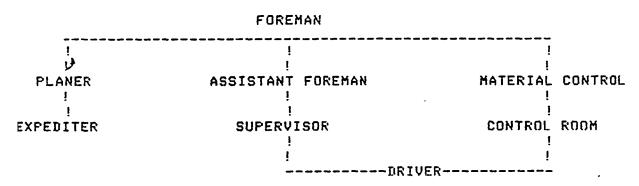
- 1. A preventative maintenance program should be conducted at least once a month on all of the material handling equipment.
- 2. Garage supervision will inspect the quality of the work done in the garage.

2.3 WORK ASSIGNMENTS

- A. Duties of Personnel
 - 1. Assistant Foreman assigns dirvers to equipment at the beginning of the shift and throughout the day.
 - 2. Planer responsible for expediting the Work Pak material per the Planning Department Schedule.
 - 3. Material Controller responsible for the control room? expediting material, material flow? and updating and correcting the computer input/output needed for material control.
 - 4. Supervisor responsible for unit moves (material control) and working with drivers for clean-up special moves? etc,
 - 5. Expediter responsible for the material flow in his specified area.
 - 6. Control Room responsible for keeping accurate records of all lifts made, receiving lift information from various departments? and delegating lifts to the various pieces of equipment. Ilrivers are contacted by radio from the control room.
 - 7. Drivers responsible for making required lifts, keeping an accurate record of all lifts, and turning in a daily transportation log to the control room.

B. Organization Chart

ORGANIZATION CHART



2.4 SUPPLY AND MAINTENANCE OF TOOLS

- A. Transportation None
- B. Garage
 - 1. The maintenance department supplies all of the power tools and larger mechanic tools. The mechanic is responsible for supplying his own small mechanic tools.

2.5 THE AND PRODUCTION REPORTING

- A. Time Reporting Each supervisor is required to fill out and submit, to the Accounting Department, a daily time report covering each of the employees supervised. This time report contains the follouin~ information:
 - 1. Date
 - 2. Supervisor's identification number
 - 3. Departmental identification number
 - 4. Employee's identification number
 - 3. Ship or work order number
 - 6. Job number which identifies the basic type of work performed,
 - 7. Item and sub-item numbers which further identifies the work performed,
 - 8. Actual hours used performing the work
 - 9. Area identification which describes the area of the ship area or unit in ground assembly or shop, where the work is performed
- B. Production Reporting The daily transportation log and the lift data sheet provide a record of every lift that is made in the shipyard. This report is generated by the control room.

2.6 SAFETY REGULATIONS

- A. Personal Safety Equipment
 - 1. Safety Equipment required:
 - a. Safety glasses with side shields
 - b. Hard hats
 - c. Leather shoes
 - d. Shirts with sleeves
 - 2. Safety Equipment recommended but not required:
 - a. Steel-toed boots or shoes
 - b. Leather gloves
- B. General Safety Requirements
 - 1. Equipment Specifications
 - a. Fork trucks which handle small objects shall be equipped with a vertical rest or back guard of sufficient height, width and strength to prevent and part of the load from falling toward. the truck.
 - b. Each gasoline truck shall be equipped with a fire extinguisher approved for use on Class-B (flammable liquid) and Class-C (electrical) fires? preferably 4-lb dry chemical or S-lb carbon dioxide. Extinguishers should be maintanied in operable condition and located where they will be accessible at. all times,
 - c. Fuel tanks of gasoline powered trucks must be equipped with flame-arresting filler caps,
 - d. Trucks operated on plant roadways should be equipped with lights for night use.
 - e. All units operated-from the 'sit position' shall he equipped with a back support for the operator.
 - f. All equipment shall be painted a distinctive color for the purpose of safety.
 - 2. Care of equipment
 - 3. All vehicles must be inspected for proper brakes? condition of tires, steering, operative horn, lights (when used), clutch actions controls and limit switches at the start of each shift. **b.** See that gasoline tank? crankcase, and radiator are properly
 - filled before starting each shift.
 - c. Keep the truck free of all objects and materials not essential to the normal and proper operation of the unit.
 - d. A periodic inspection shall be made by the Maintenance Department.

3. Operator

- a. An operator must take Precautions and safety measures in the operation and maintenance Of a truck similar to those he would take in operating his own car.
- b. Pedestrians have the right of was.
- c. Keep feet inside running line of the truck. Never put arms or legs between the uprights of the mast.

4. Operation of Equipment

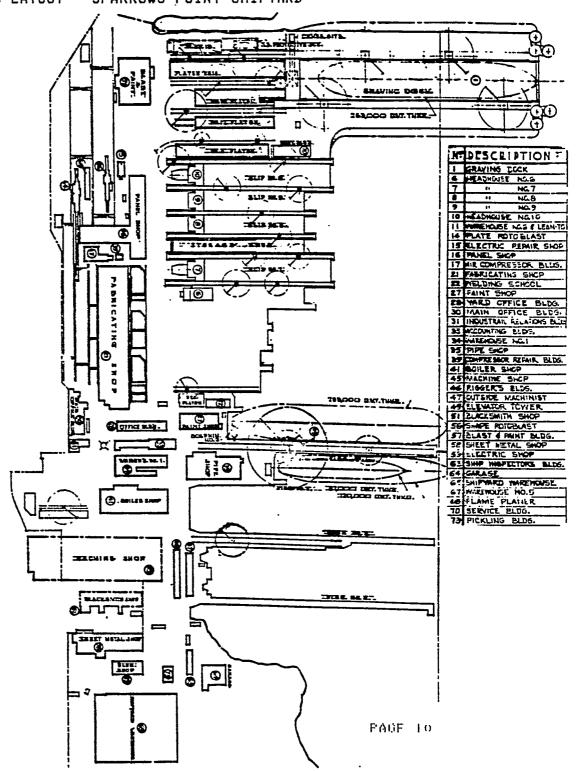
- a. Trucks must be operated at a speed in keeping with the conditions in the area in which they are travelins,
- b. Keep to the right whenever possible. Obey all traffic signs and signals.
- c. Keep a safe distance in back of vehicle in front of you.
- d. Inspect all loads to be moved,
- e. In operating unit be sure of proper clearance on the sides, front, back and especially the overhead.
- f. Keep the load platforms or forks at the lowest possible position when truck is in motion.

2.7 SUPERVISORY RESPONSIBILITIES

- A. Supervisors are responsible for time reporting, work assignments, inspection of work and requistions of material and supplies.
- B. Assistant foremen are responsible for time reporting, work assignments, planning work, production reporting, ordering material and obtaining services of other crafts, and labor costs.
- co For a more detailed description of the responsiblits of the Transportation personnel? see "section 2.3 of this manual.

SECTION 3 FACILITIES AND EQUIPMENT

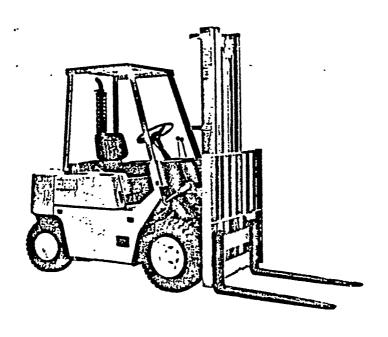
3.1 YARD LAYOUT - SPARROWS POINT SHIPYARD



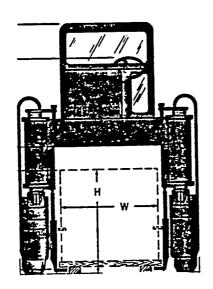
FACILITIES AND EQUIPMENT

3.2 MATERIAL HANDLING EQUIPMENT

FORK TRUCK - FIGURE 1



STRADDLE CARRIER - FIGURE 2



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SECTION 4 LAYOUTS AND MATERIAL FLOW

4.1 LAYOUTS- WORK AREAS

A. The work areas, found in the back-up manuals, are representative of the yard address system found at the Sparrows Point Shipyard. The yard is divided into zones, areas and squares. Material is moved from zone-area-seuare to zone-area-square.

4.2 MATERIAL FLOW

A. The movements of material and units by material handling equipment are operations that fall into service work, rather than production. For this reason, the concept of material flow would not be applicable.

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SECTION 5 PROCESS DATA

5.1 DERIVATION OF PROCESS TIMES

A. Material Handling Equipment - the following formulas were developed from studies on each type of material handling equipment. The formulas are based on the linear regression formula, y = mx + b, where y = time and x = distance, Each type of equipment has three load categories? empty, loose and secure, Each type of equipment was assigned a process time code which can be found in the work areas.

1.	Fork	Truck
	T. OT 17	TT (1/2)

a.	Loose	:	У	=	.0081x	+ 0.1	01T
					.00llx		02T
C.	Empty	:	V	=	.0011x	+ 0.9	03T

2. Small Straddle Carrier (40000 lbs)

a.	Loose : y =	.0009x	+ 0.4	4 04T
b.	Secure : y =	.0913x	- 0.3	3 05T
C.	Empty : $y =$.0010x	+ 0.2	2 06Т

3, Large Straddle Carrier (60000 lbs)

a.	Loose :	y =	.0008x	+ 1.5	07T
b.	Secure :	y =	.0015x	+ 0.8	780
c.	Empty:	y =	.0016x	+ 0.4	09T

SECTION 6 STANDARD TIME CALCULATION

6.1 HOW TITLE STANDARDS WERE DEVELOPED

- A. Development to develop the time standards for the material handli equipment, a day was sent on each two of equipment and a log was kept detailing all of the moves and lifts. An attempt was made to spend a full day on each piece of equipment. This was accomplished for all of the equipment.
- B. Moves and lifts most of the moves and lifts were made from zone to zone. The titlesheet contains all of the zone to zone moves and any additional moves made by the piece of equipment (area to area or square to square).
- C. Time standards There are two keypoints-for each item in the time standard; (1) tells the origin and destination of the equipment for each move, The zone-area-square format is used, (2) describes the type of material being moved and if there are any problems with the lifts or moves.
- D. Size of Time standards to keep the time standards from being too large, the day was broken up into two sections? (1) 7:30 12:00, (2) 12:30 4:00.

6.2 MANNING, CREW SIZE

A. Equipment

Type	# in use	men/type
1. Fork Truck	3	1
2. Small Straddle	1	1
3. Large Straddle	1	1

- B. Control Room 1 radio operator
- C. Planer 9 expediters
- II. Garage 7 mechanics

SECTION 7 ALLOWANCES

7.1 GENERAL

A. A personal, fatigue and delay (PF&D) allowance of 15% has been applied to the standards developed. This allownace is used for illustrative purposes only. Anyone using this data should develop their own PF & I allowance for their specific situation.

SECTION 8 STANDARDS APPLICATION

8.1 RESPONSIBILITY FOR MAINTENANCE OF STANDARDS

A. The Industrial Engineering Department will be responsible for the maintenance of the standards and the manual. A group, within this department, which has the responsibility for the development of engineered labor standards will also have the task of maintenance,

8.2 MAINTENANCE OF THE MANUAL AND TIME STANDARDS

See 8.1

8.3 PROCEDURE FOR MAINTAINING THE MANUAL AND STANDARDS

A. Communication with the Transportation Department will facilitate this task. As any changes or improvements in methods? equipment or procedures occurs the Industrial Engineering Department, will be informed. The Industrial Engineering Department will evaluate these changes or improvements to determine their impact on the standards previously developed.

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APPENDIX A

GLOSSARY OF TERMS

- 1. ANGLE a shape having a cross section like the less of a right triansile.
- 2. BASKET a four sided open container with wire mesh sides. Used by a fork truck for transporting small objects.
- 3. BIN a four sided open container with metal sides. Used by a fork truck for transporting small objects,
- 4. BUILDING BASIN ship construction area, the floor of which is below water level.
- 5. CHANNEL a metal bar of flattened U-shaped cross section
- 6. CRADLE a two sided container with metal sides. Used by a straddle for transporting pipe.
- 7. DAILY TRANSPORTATION LOG a record kept by the driver of a piece of material handling equipment. Record includes lift number, origin, destination and time delivered.
- 8. FORK TRUCK a truck with a mast containing a two prong fork arrangement that may be tilted forward or back and raised UP or down for the prupose picking up pallet loads of material.
- 9. LIFT LIST a list of lifts, compiled by the control room, then given to a driver of a specific piece of equipment. The list includes the lift number, origin and destination of each lift, and a brief description of the material.
- 10. LIFT NUMBER a number that identifies a specific lift. The number is attached to the material in an area that can be easily seen from the equipment.
- 11. LOCAL LIFTS OR MOVES usually made within an area or square. The material is moved around to suit requirements of personnel in the area or square where it is located. No lifts numbers are attached to the material and no time is reported on the Daily Transportation Log.
- 12. LOOSE LIFT OR LOAD usually a lift or load that is not secured or tied down to the pallet.
- 14. PLATE RACK a T-shaped configuration consisting of 2 I-Beams. U-seal by a straddle carrier to transport plates.
- 15. PLATFORM a rectangular configuration made of wood, Used by a straddle-carrier to transport material, usually scrap parks or trash bins.
- 16. SCRAP PAN a four sided open container with metal sides* Used by either a fork truck or a straddle-carrier to transport steel scrap to the dump.
- 17. SECURE LIFT OR LOAD a lift or load that is either tied down to pallet or placed in a bin or basket,
- 180 SKIDS two wooden or steel I-Beams placed side by side so that plates can be placed on them. Used bs a straddle-carrier to transport plates or other material.

APPENDIX A

- 19. STRADDLE CARRIER a unit shaped much like an inverted channel. The lifting device consists of a longitudinal angle that can pick up special pallets, bolsters, or unit loads of a standard width. All lifts are picked up at the ground level. The riding cab is elevated,
- 20. TRANSPORT to carry an item with the aid of material handling equipment from one location to another? over a long distance,
- 21. TRANPORTER a multiwheeled Jacking platform. The standard type has an underslung cab at each end and may be driven from either end.
- ²² TRASH BIN a four sided open container with metal sides. Used by either a fork truck or a straddle-carrier to transport trash to the dump.

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APPENDIX B

SAMPLES OF FORMS

EXHIBIT A. Work Area Layout Sheet

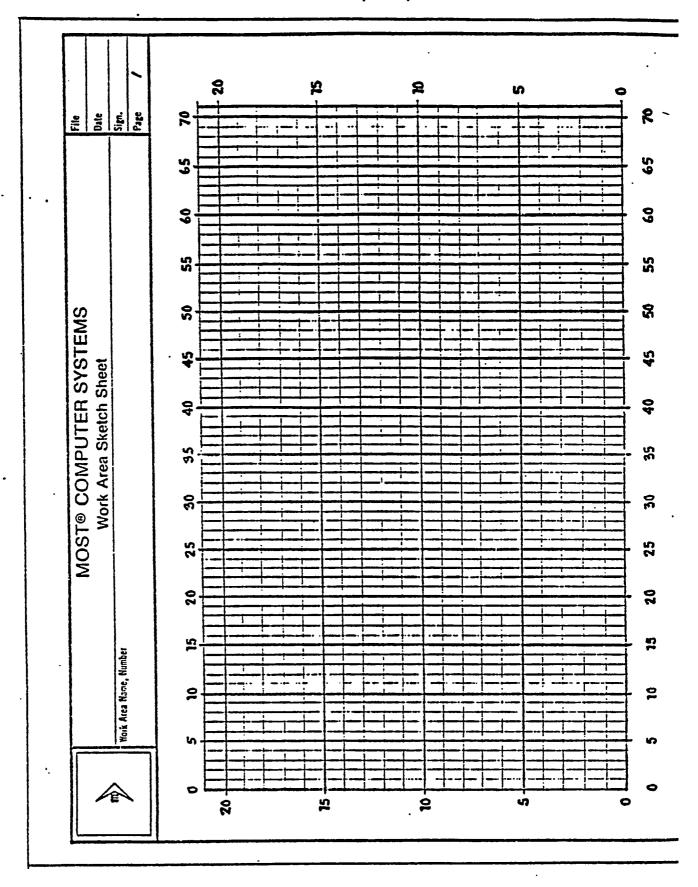
Used to input work area information into the system? the front of the form is a work area grid, The back is used to record all pertinent information needed to input a work. area. The form allows for 25 work places? 8 operators and/or carriers, and a variable number of tools? objects, end equipment.

EXHIBIT B. Title and Methods Specification Sheet
Used to input a Host Analysis into the system. The form has an area to
record the title of the Most Analssis? the special conditions and
keypoints. The remainder of the form is used for recording the Method
steps of the Most Analysis. The back of the form is available for any
additional method steps.

EXHIBIT C. Data Entry Form

Used to input data into the data base. The form applies to Most Analyses Combined Sub-operations, or Titlesheets. There is an area for listing the Most Analysis Title and the Data Base Title.

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WORK MANAGEMENT MANUAL

BACK-UP DATA for MATERIAL HANDLING EQUIPMENT FORK TRUCK

Prepared for

SNAME Panel SP-8 MarAd Task Es-8-15 Under direction of H.B, Maynard & Co,

Prepared by

Industrial Engineering Department
Bethlehem Steel Corporation
Marine Construction Group
Sparrows Point, Maryland
July, 1983

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SECTION 1 SCOPE

This manual contains the back-up data for the fork truck movements on a typical day. The data includes pertinent work areas, titlesheets, time standards, and manual methods. Any further information about the fork truck or arts of the data can be found in the general Work Management Manual on Material Handling Equipment.

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SECTION 2 JOB LAYOUT - WORK AREAS

			YARD-ZO	NES	[• ! .	
! ! !	! ! ZONE-1 ! !		WATER		! ! !	! !	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!	ROAD-1 !		!	!	! ZONE-7	!	! !!
!!!!!!!!!	. ! ! ZONE-2 ! !	ZONE-4 !	 ZONE-5 	: ! ! !	! ! !	! !	! ! !!
!	(X) (X)		ROAD-2			!	:
!!!!!!!	ZONE-3	! ! !	ZONE-6	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! ! ZONE-8 !	! ! !	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

Name	Location		Body/Frad/PT	
WORKPLACES:				
YARD-ZONES	35,21	0,0		
ROAD-1	0,13	10,2		
RDAD-2	0,5	59,2		
WATER	35,18	0,0		
ZONE-1	0,15	10,5		
ZONE-2	0,7	10,6		
ZONE-3	0.0	20,5		
ZONE-4	10,7	15,8		
ZONE-5	25,7	15,8	•	
ZONE-6	20,0	20,5		
ZONE-7	45,7	10,14		
ZONE-8	45,0	10,5		
ZONE-9	60,0	10,10		
ZONE-10	60,11	10,9		
OBJECTS:				
PALLETS	YARD-ZONES		FRAG	
BOLSTERS	YARD-ZONES		FRAG	
UNITS	YARD-ZONES		FRAG -	

EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-E LG-STRAD-E	YARD-ZONES YARD-ZONES YARU-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS:	ROAD-2	5,6 B
FORK-DRIVER STRADDLE-DRIVER	ROAD 2 ROAD-2	10,6
From	To 	Steps
YARD-ZONES	ROAD-1	0
YARD-ZONES	ROAD-2	0
YARD-ZONES	WATER	0
YARD-ZONES	ZONE-I	0
YARD-ZONES	ZONE - 2	0
YARD-ZONES	ZONE - 3	0
YARD-ZONES	ZONE - 4	0
LARD-ZONES	ZONE-5 ZONE-6	0
YARD-ZONES	ZONE-6 ZONE-7	0
YARD-ZONES YARD-ZONES	ZONE – 7 ZONE – 8	o O
YARD-ZONES	ZONE-9	0
YARD-ZONES	ZONE-10	0
ROAD-1	ROAD-2	0
ROAD-1	WATER	0
ROAD-1	ZONE-1	0
ROAD-1	ZONE-2	0 -
ROAKI-1	ZONE-3	0
ROAD-1	ZONE-4	0
ROAD-1	ZONE – 5	0
ROAD-1	ZONE-6	0
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ROAD-1	ZONE - 8	0 0
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ROAD-1	ZONE-10 WATER	0
ROAD-2 ROAD-2	ZONE-1	0
KUAD-Z	TOME T	V

ROAD-2	ZONE-2	0
ROAD-2	ZONE-3	0
ROAD-2	ZONE-4	0
ROAD-2	ZONE-5	0
ROAD-2	ZONE-6	0
ROAD-2	ZONE-7	0
ROAD-2	ZONE-8	0
ROAD-2 ROAD-2	ZONE-9	0
ROAD-2 ROAD-2	ZONE-10	0
WATER	ZONE-1	0
WATER	ZONE-2	0
WATER	ZONE-3	0
WATER	ZONE-4	0
WATER	ZONE-5	0
WATER	ZONE-6	0
WATER	ZONE-7	0
WATER	ZONE-8	0
WATER	ZONE-9	0
WATER	ZONE-10	0
ZONE-1	ZONE-2	640
ZONE-1 ZONE-1	ZONE-3	760
ZONE-1 ZONE-1	ZONE-4	1190
ZONE-1 ZONE-1	ZONE-5	1250
ZONE-1 ZONE-1	ZONE-6	1180
ZONE-1 ZONE-1	ZONE - 7	1640
ZONE-1 ZONE-1	ZONE-8	1560
ZONE-1 ZONE-1	ZONE-9	1880
ZONE-1 ZONE-1	ZONE-10	2240
ZONE – 1 ZONE – 2	ZONE-3	500
ZONE - 2	ZONE-4	580
ZONE – Z ZONE – 2	ZONE-5	930
ZONE - 2	ZONE-6	870
ZONE - 2	ZONE-7	1340
ZONE - 2	ZONE-8	1150
ZONE - 2 ZONE - 2	ZONE-9	1540
ZONE - 2	ZONE-10	1910
ZONE - 2 ZONE - 3	ZONE-4	650
ZONE - 3	ZONE-5	940
ZONE-3	ZONE-6	810
ZONE-3	ZONE-7	1290
ZONE-3	ZONE-8	1180
ZONE-3	ZONE-9	1570
ZONE-3 ZONE-3	ZONE-10	1960
ZONE-3 ZONE-4	ZONE-5	600
ZONE - 4 ZONE - 4	ZONE-6	610
ZONE-4 ZONE-4	ZONE-7	1250
ZONE-4 ZONE-4	ZONE-8	1140
ZONE I		

ZONE-4	ZONE-9	1330
ZONE-4	ZONE-10	1730
ZONE-5	ZONE-6	650
ZONE-5	ZONE-7	1000
ZONE-5	ZONE-8	880
ZONE-3	ZONE-9	1080
ZONE-5	ZONE-10	1470
ZONE-6	ZONE-7	1030
ZONE-6	ZONE-8	910
ZONE-6	ZONE-9	1130
ZONE-6	ZONE-10	1480
ZONE-7	ZONE-8	470
ZONE-7	ZONE-9	940
ZONE-7	ZONE-10	1310
ZONE-8	ZONE-9	820
ZONE-8	ZONE-10	1190
ZONE-9	ZONE-10	810

			ZONE-1			
	! !! ! !! ! !! ! !! ! !! ! !! ! !! ! !	BASIN	!! !! !! !! !! !! !! !! !! !! !! !!	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	 AREA-5	
!			ROADWAY	•	(X)	! (X)

Name	Location	Location		
WORKPLACES:				
ZONE-1	35,21	0,0		
ROADWAY	0,0	71,3		
BASIN	15,3	25,17		
AREA-1	48,3	7,17		
AREA-2	41,3	7,17		
AREA-3	7,3	7,17		
AREA-4	0,3	7,17	•	
AREA-5	55,3	16,12		
OBJECTS:				
PALLETS	ZONE-1		FRAG	
BOLSTERS	ZONE-1		FRAG	
EQUIPMENT:				
FRK-E	ROADWAY		03T	
FRK-L	ROADWAY		01T	
FRK-S	ROADWAY		02T	
SM-STRAD-E	ROADWAY		06T	
SM-STRAD-L	ROADWAY		04T	

SM-STRAD-S	ROADWAY	05T
LG-STRAD-E	ROADWAY	09T
LG-STRAD-L	ROADWAY	07T
LG-STRAD-S	ROADWAY	08T
OPERATORS:	ROADWAY	70,1 B
FORK-DRIVER	RDADWAY	67,1
STRADDLE-DRIVER	ROHDWHI	0,,,
_	To	Steps
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ZONE-1	ROADWAY	0
ZONE-1	BASIN	0
ZONE-1	AREA-1	0
ZONE-1	AREA-2	0
ZONE-1	AREA-3	0
ZONE-1	AREA-4	0
ZONE-1	AREA-5	0
ROADWAY	BASIN	0
RDADWAY	AREA-1	0
ROADWAY	AREA-2	0
RDADWAY	AREA-3	0
ROADWAY	AREA-4	0 -
ROADWAY	AREA-5	0
BASIN	AREA-1	0
BASIN	AREA-2	Ō
BASIN	AREA-3	0
BASIN	AREA-4	0
BASIN	AREA-5	0
AREA-1	AREA-2	25
AREA-1	AREA-3	620
AREA-1	AREA-4	645
AREA-1	AREA-5	255
AREA-2	AREA-3	590
AREA-2	AREA-4	615
AREA-2	AREA-5	. 295
AREA-3	AREA-4	25
AREA-3	AREA-5	445
AREA-4	AREA-5	470
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! PLATE-BLAS	ST !	! ARE	4-7 !				
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!	į		AREA-5	 !			
! AREÄ- ! SHAPE-BLA							
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!	WELD-REPAIR	!	AREA-4	!			
! PANEL-SHOP	ADEA-25	!	BLA	ST-PAINT!	1 !		
PANEL-SHUP	HREH-25	i	AREA-3		!AREA-8		
i i		!		!	! !		
N		Locatio	ın	Boo	jy/Frag/PT		
Name							
WORKPLACES:							
ZONE-3	•	35,21					
PANEL-SHOP		1,3	0,0				
BLAST-PAINT		54,3 24,6	0,0 0,0				
WELD-REPAIR		11,8	0,0				
SHAPE-BLAST		14,13	0,0				
EXACTOGRAPH PLATE-BLAST		11,16	0,0				
603-TRACK		35,7	36,0				
602-TRACK		35,14	36,0				
605-TRACK		. 30,20	41,0				
AREA-1		0,12	25,5				
AREA-2		0,7	25,5				
AREA-3		35,0	25,4				
AREA-4		35,4	20,2				
AREA-5		35,8	20,2				
AREA-6		35,11	10,2				
AREA-7		35,15	10,2				
AREA-8		65,0 05,47	6,5 25.3				
AREA-10-T0-23		25,17	25,2				

ZONE-3

AREA-25

15,17 10,2	
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ZONE-3	03T
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ZONE-3	02T
ZONE-3	06T
	04T
ZONE-3	05T
ZONE-3	09T
ZONE-3	07T
ZONE-3	08T
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BLAST-PAINT	O
WELD-REPAIR	0
SHAPE-BLAST	0
EXACTOGRAPH	0
PLATE-BLAST	0
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AREA-3 AREA-4	0
AREA-3 AREA-4 AREA-5	0 0 0
AREA-3 AREA-4 AREA-5 AREA-6	0 0 0
AREA-3 AREA-4 AREA-5 AREA-6 AREA-7	0 0 0 0
AREA-3 AREA-4 AREA-5 AREA-6 AREA-7 AREA-8	0 0 0 0 0
AREA-3 AREA-4 AREA-5 AREA-6 AREA-7 AREA-8 AREA-10-TD-23	0 0 0 0 0 0
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PANEL-SHOP	PLATE-BLAST	0
PANEL-SHOP	603-TRACK	0
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PANEL-SHOP	605-TRACK	0
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PANEL-SHOP	AREA-2	0
PANEL-SHOP	AREA-3	0
PANEL-SHOP	AREA-4	0
PANEL-SHOFI	AREA-5	0
PANEL-SHOP	AREA-6	0
PANEL-SHOP	AREA-7	0
PANEL-SHOP	AREA-8	0
PANEL-SHOP	AREA-10-T0-23	0
PANEL-SHOP	AREA-25	0
PANEL-SHOP	AREA-45	0
BLAST-PAINT	WELD-REPAIR	0
BLAST-PAINT	SHAPE-BLAST	0
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BLAST-PAINT	AREA-45	0
WELD-REPAIR	SHAPE-BLAST	0
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WELD-REPAIR	AREA-3	0
WELD-REPAIR	AREA-4	0

WELD-REPAIR	AREA-5	0
WELD-REPAIR	AREA-6	0
WELD-REPAIR	AREA-7	0
WELD-REPAIR	AREA-8	0
	AREA-10-TO-23	
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WELD-REPAIR	AREA-25	0
WELD-REPAIR	AREA-45	0
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SHAPE-BLAST	PLATE-BLAST	0
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SHAPE-BLAST	602-TRACK	0
SHAPE-BLAST	605-TRACK	0
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SHAPE-BLAST	AREA-3	0
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SHAPE-BLAST	AREA-5	0
SHAPE-BLAST	AREA-6	0
SHAPE-BLAST	AREA-7	0
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SHAPE-BLAST	AREA-25	0
SHAPE-BLAST	AREA-45	0
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EXACTOGRAPH	AREA-8	0
EXACTOGRAPH	AREA-10-TO-23	0
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EXACTOGRAPH	AREA-45	0
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PLATE-BLAST	602-TRACK	0
PLATE-BLAST	605-TRACK	0
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PLATE-BLAST	AREA-3	0
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PLATE-BLAST	AREA-6	0

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PLATE-BLAST	AREA-7	0
PLATE-BLAST	AREA-8	0
PLATE-BLAST	AREA-10-TO-23	0
PLATE-BLAST	AREA-25	0
PLATE-BLAST	AREA-45 602-TRACK	0
603-TRACK		0
603-TRACK	605-TRACK	0
603-TRACK	AREA-1	0
603-TRACK	AREA-2	0
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603-TRACK	AREA-6	0
603-TRACK	AREA-7	0
603-TRACK	AREA-8	0
603-TRACK	AREA-10-TO-23	0
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603-TRACK	AREA-45	0
602-TRACK	605-TRACK	0
602-TRACK	AREA-1	0
602-TRACK	AREA-2	0
602-TRACK	AREA-3	0
602-TRACK	AREA-4	0
602-TRACK	AREA-5	0
602-TRACK	AREA-6	0
602-TRACK	AREA-7	0
602-TRACK	AREA-8	0
602-TRACK	AREA-10-TO-23	0
602-TRACK	AREA-25	0
602-TRACK	AREA-45	0
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	AREA-1	0
605-TRACK	AREA-2	0
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605-TRACK	AREA-8	
605-TRACK	AREA-10-TO-23	0
605-TRACK	AREA-25	0
605-TRACK	AREA-45	0
AREA-1	AREA-2	280
AREA-1	AREA-3	
AREA-1	AREA-4	310 280
AREA-1	AREA-5	250
AREA-I	AREA-6	190
AREA-I	AREA-7	190

AREA-1	AREA-8	425
AREA-1	AREA-10-TO-23	210
AREA-1	AREA-25	345
AREA-1	AREA-45	305
	AREA-3	260
AREA-2		230
AREA-2	AREA-4	
AREA-2	AREA-5	225
AREA-2	AREA-6	210
AREA-2	AREA-7	235 425
AREA-2	AREA-8	425
AREA-2	AREA-10-TO-23	250
AREA-2	AREA-25	250 325
	AREA-45	350
AREA-2		195
AREA-3	AREA-4	
AREA-3	AREA-5	220
AREA-3	4REA-6	200
AREA-3	AREA-7	225
AREA-3	AREA-8	140
AREA-3	AREA-10-TO-23	270
AREA-3	AREA-25	190
AREA-3	A R E A - 4 5	370
	AREA-5	185
AREA-4		170
AREA-4	AREA-6	200
AREA-4	AREA-7	
AREA-4	AREA-8	340
AREA-4	AREA-10-TO-23	175
AREA-4	AREA-25	130
AREA-4	AREA-45	275
AREA-5	AREA-6	145
AREA-5	AREA-7	170
AREA-5	AREA-8	290
AREA-5	AREA-10-TO-23	200
	AREA-25	230
AREA-5		300
AREA-5	AREA-45	105
AREA-6	AREA-7	
AREA-6	AREA-8	350
AREA-6	AREA-10-TO-23	135
AREA-6	AREA-25	260
AREA-6	AREA-45	235
AREA-7	AREA-8	375
AREA-7	AREA-10-TO-23	70
AREA-7	AREA-25	290
AREA-7	AREA-45	170
	AREA-10-TO-23	420
AREA-8		410
AREA-8	AREA-25	520
AREA-8	AREA-45	
AREA-10-TO-23	AREA-25	355

AREA-10-TO-23	AREA-45	100
111(111 10 10 25	3573 45	435
AREA-25	AREA-45	193

ZONE-4

! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !		7-WAY ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
! ! AREA-10	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	AREA-7 !
!	ROADWAY	(X) (X) !
Name	Location 	Body/Fras/PT
WORKPLACES: ZONE-4 ROADWAY 7-WAY 78-AREA 8-WAY 9-WAY 10-WAY AREA-7 AREA-7 AREA-8 AREA-9 AREA-10	35,21 0,0 0,0 71,2 58,5 13,14 50,5 5,8 34,5 12,10 20,5 12,10 0,5 15,14 58,2 13,3 48,2 10,3 34,2 14,3 20,2 14,3 0,2 20,3	
OBJECTS: PALLETS BOLSTERS UNITS EQUIPMENT:	ZONE-4 ZONE-4 ZONE-4	FRAG FRAG FRAG

STRADDLE FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-E	RECORDER	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADBLE-DRIVER	ROADWAY RECORDER	60,1 B 65,1

From	То	Steps
ZONE-4 ROADWAY	RECORDER 7-WAY 78-AREA 8-WAY 9-WAY 10-WAY AREA-7 AREA-78 AREA-8 AREA-9 AREA-10 7-WAY 78-AREA 8-WAY 9-WAY 10-WAY AREA-7 AREA-7 AREA-7 AREA-8 AREA-9 AREA-10 78-AREA 8-WAY 9-WAY 10-WAY AREA-7 AREA-7 AREA-10 78-AREA 8-WAY 9-WAY 10-WAY	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7-WAY	AREA-9	0
7-WAY	AREA-10	0
78-AREA	8-WAY	0
78-AREA	9-WAY	0
78-AREA	10-WAY	0
78-AREA	AREA-7	0
78-AREA	AREA-78	0
78-AREA	AREA-8	0
78-AREA	AREA-9	0
78-AREA	AREA-10	0
8-WAY	9-WAY	0
8-WAY	10-WAY	0
8-WAY	AREA-7	0
8-WAY	AREA-78	0
8-WAY	AREA-8	0
8-WAY	AREA-9	0
8-WAY	AREA-10	0
9-WAY	10-WAY	0
9-WAY	AREA-7	0
9-WAY	AREA-78	0
9-WAY	AREA-8	0
9-WAY	AREA-9	0
9-WAY	AREA-10	0
10-WAY	AREA-7	0
10-WAY	AREA-78	0
10-WAY	AREA-8	0
10-WAY	AREA-9	0
10-WAY	AREA-10	0
AREA-7	AREA-78	125
AREA-7	AREA-8	160
AREA-7	AREA-9	210
AREA-7	AREA-10	270
AREA-78	AREA-8	120
AREA-78	AREA-9	170
AREA-78	AREA-10	225
AREA-8	AREA-9	130
AREA-8	AREA-10	180
AREA-9	AREA-10	135

	ZONE-9	
! ! ! ! AREA-74	! ! ! !	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
AREA-51 !BRKT!	!! ELECT-SHOP!!	
!! WAREHO	! (!! !! ((X) !

Name	Locatio	n	Body/Frag/PT
		40 apr	
WORKPLACES:			
ZONE-9	35,21	0 + 0	
ROADWAY	35,0	8,20	
POLICE	2,1	7,3	
WAREHOUSE	10,0	23,2	
BRKT	19,9	0,0	
SHOP	17,7	5,3	
ELECT-SHOP	22,7	11,3	
PICKLER	49,7	0,0	
BLDG	45,5	8,3	
INSP	55,6	. 5,4	
BLDG.	58 <i>•</i> 7	0,0	
GARAGE	65,5	6,2	
COPPER-SHOP	0,12	12,3	
SHEET-METAL-SHOP	17,12	17,3	
RIGGING	47,15	8,4	
DEFT	49,16	0,0	
OUTSIDE-MACH	59,15	12,4	
SHOP.	63,16	0,0	
AREA-51	0,11	13,0	

AREA-60

AREA-65

AREA-70	10,6 25,0	
	0,10 35,10	
AREA-74		
AREA-84	0,0 34,5	
AREA-87	55,5 16,8	
AREA-91	45,4 10,0	
OBJECTS:		
PALLETS	ZONE-9	FRAG
BOLSTERS	ZONE-9	FRAG
EQUIPHENT:		
FRK-E	ROADWAY	03T
FRK-L	RDADWAY	01T
FRK-S	ROADWAY	02T
SM-STRAD-E	RDADWAY	790 T
SM-STRAD-L	RDADWAY	04T
SM-STRAD-S	ROADWAY	05T
LG-STRAD-E	ROADWAY	09T
LG-STRAD-L	RDADWAY	07T
LG-STRAD-S	ROADWAY	ÖÉT
LO OTRAD O		V 01
OPERATORS:		
FORK-DRIVER	ROADWAY	40,3 B
STRADDLE-DRIVER	ROADWAY	40,5
_		
From	To	Sters
		_
ZONE-9	ROADWAY	0
ZONE-9	POLICE	0
ZONE-9	WAREHOUSE	0
ZONE-9	BRKT	0
ZONE-9	SHOP	0
ZONE-9	ELECT-SHOP	0
ZONE-9	PICKLER	0
ZONE-9	BLDG	0
ZONE-9	INSP	0
ZONE-9	BLDG.	0
ZONE-9	GARAGE	0
ZONE-9	COPPER-SHOP	0
ZONE-9	SHEET-METAL-SHOP	0
ZONE-9	RIGGING	0
ZONE-9	DEPT	0
ZONE-9	OUTSIDE-HACH	0

58,14

46,14

13,0

10,0

ZONE - 9	SHOP.1	0
ZONE-9	AREA-51	0
ZONE-9 ZONE-9	AREA-60	0
ZONE-9	AREA-65	0
ZONE-9 ZONE-9	AREA-70	0
ZONE-9	AREA-74	0
ZONE-9 ZONE-9	AREA-84	0
ZONE-9	AREA-87	0
ZONE - 9	AREA-91	0
ROADWAY	POLICE	0
ROADWAY	WAREHOUSE	0
ROADWAY	BRKT	0
ROADWAY	SHOP	0
ROADWAY	ELECT-SHOP	0
ROADWAY	PICKLER	0
ROADWAY	BLDG	0
ROADWAY	INSP	0
ROADWAY	BLDG.	0
ROADWAY	GARAGE	0
ROADWAY	COPPER-SHOP	0
ROADWAY	SHEET-METAL-SHOP	0
ROADWAY	RIGGING	0
ROADWAY	DEPT	0
ROADWAY	OUTSIDE-MACH	0
ROADWAY	SHOP.1	0
ROADWAY	AREA-51	0
ROADWAY	AREA-60	0
ROADWAY	AREA-65	0
ROADWAY	AREA-70	0
ROADWAY	AREA-74	0
ROADWAY	AREA-84	0
ROADWAY	AREA-87	0
ROADWAY	AREA-91	0
POLICE	WAREHOUSE	0
POLICE	BRKT	0
POLICE	SHOP	0
POLICE	ELECT-SHOP	0
POLICE	PICKLER	0
POLICE	BLDG	
POLICE	INSP	0
POLICE	BLDG.	0
POLICE	GARAGE	
POLICE	cOPPER-SHOP	0
POLICE	SHEET-METAL-SHOP	0
POLICE	RIGGING	0
POLICE	DEPT	0
POLICE	OUTSIDE-MACH	U
1 0 1 1 0 1		

POLICE	SHOP .	0
POLICE	AREA-51	0
POLICE	AREA-60	0
POLICE	AREA-65	0
POLICE	AREA-70	0
POLICE	4RE14-74	0
POLICE	AREA-84	0
POLICE	AREA-87	0
POLICE	AREA-91	Õ
WAREHOUSE	BRKT	0
WAREHOUSE	SHOP	0
WAREHOUSE	ELECT-SHOP	0
WAREHOUSE	PICKLER	0
WAREHOUSE	BLBG	0
WAREHOUSE	INSP	0
WAREHOUSE	BLDG.	0
WAREHOUSE	GARAGE	0
WAREHOUSE	COPPER-SHOP	0
WAREHOUSE	SHEET-METAL-SHOP	0
WAREHOUSE	RIGGING	0
WAREHOUSE	DEPT	0
WAREHOUSE	OUTSIDE-MACH	0
WAREHOUSE	SHOP.	0
WAREHOUSE	AREA-51	0
WAREHOUSE	AREA-60	0
WAREHOUSE	AREA-65	0
WAREHOUSE	4REA-70	0
WAREHOUSE	AREA-74	0
WAREHOUSE	AREA-84	0
WAREHOUSE	AREA-87	0
WAREHOUSE	AREA-91	0
BRKT	SHOP	0
BRKT	ELECT-SHOP	Ő
BRKT	PICKLER	0
BRKT	BLDG	0
BRKT	INSP	0
BRKT	BLDG .	0
BRKT	GARAGE	0
BRKT	COPPER-SHOP	0
BRKT	SHEET-METAL-SHOP	0
	RIGGING	0
BRKT RRKT	DEFT	0
	OUTSIDE-MACH	0
BRKT BRKT	SHOP .	0
	AREA-51	0
BRKT	AREA-60	0
BRKT	AREA-65	0
BRRT	CU-ALIA	U

•	ELECT-SHOP GARAGE 0 ELECT-SHOP COPPER-SHOP 0 ELECT-SHOP SHEET-METAL-SHOP 0 ELECT-SHOP RIGGING 0 ELECT-SHOP DEPT 0	BRKT BRKT BRKT BRKT BRKT BRKT SHOP SHOP SHOP SHOP SHOP SHOP SHOP SHOP	AREA-70 AREA-74 AREA-84 AREA-87 AREA-91 ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH SHOP. AREA-51 AREA-60 AREA-65 AREA-70 AREA-74 AREA-84 AREA-87 AREA-91 PICKLER BLDG INSP BLDG INSP BLDG	
	ELECT-SHOPCOPPER-SHOP0ELECT-SHOPSHEET-METAL-SHOP0ELECT-SHOPRIGGING0	ELECT-SHOP ELECT-SHOP	INSP BLDG .	0 0
ELECT-SHOP OUTSIDE-HACH 0 ELECT-SHOP SHOP. 0 ELECT-SHOP AREA-51 0 ELECT-SHOP ARE4-60 0		ELECT-SHOP ELECT-SHOP ELECT-SHOP ELECT-SHOP	AREA-65 AREA-70 AREA-74 AREA-84	0 0 0
ELECT-SHOPOUTSIDE-HACH0ELECT-SHOPSHOP0ELECT-SHOPAREA-510ELECT-SHOPARE4-600ELECT-SHOPAREA-650ELECT-SHOPAREA-700ELECT-SHOPAREA-740ELECT-SHOPAREA-840	ELECT-SHOP AREA-70 0 ELECT-SHOP AREA-74 0 ELECT-SHOP AREA-84 0	ELECT-SHOP ELECT-SHOP PICKLER PICKLER	AREA-87 AREA-91 BLDG INSP	0 0 0 0
ELECT-SHOP OUTSIDE-HACH 0 ELECT-SHOP SHOP. 0 ELECT-SHOP AREA-51 0 ELECT-SHOP AREA-65 0 ELECT-SHOP AREA-70 0 ELECT-SHOP AREA-74 0 ELECT-SHOP AREA-84 0 ELECT-SHOP AREA-87 0 ELECT-SHOP AREA-91 0 PICKLER BLDG 0 PICKLER INSP 0	ELECT-SHOP AREA-70 0 ELECT-SHOP AREA-74 0 ELECT-SHOP AREA-84 0 ELECT-SHOP AREA-87 0 ELECT-SHOP AREA-91 0 PICKLER BLDG 0 PICKLER INSP 0	PICKLER	BLDG.	0

PICKLER	GARAGE	0
PICKLER	COPPER-SHOP	0
PICKLER	SHEET-METAL-SHOP	0
PICKLER	RIGGING	0
PICKLER	DEPT	0
PICKLER	OUTSIDE-MACH	0
	SHOP.	0
PICKLER	AREA-51	0
PICKLER	AREA-60	Ö
PICKLER		0
PICKLER	AREA-65	0
PICKLER	AREA-70	0
PICKLER	AREA-74	
PICKLER	AREA-84	0
PICKLER	AREA-87	0
PICKLER	AREA-91	0
BLDG	INSP	0
BLDG	BLDG .	0
BLDG	GARAGE	0
BLDG	COPPER-SHOP	0
BLDG	SHEET-METAL-SHOP	0
BLDG	RIGGING	0
BLDG	DEPT	0
BLDG	OUTSIBE-MACH	0
BLDG	SHOP •	0
	AREA-51	0
BLDG	AREA-60	0
BLDG	AREA-65	0
BLDG		0
BLDG	AREA-70	0
BLDG	AREA-74	0
BLDG	AREA-84	0
BLDG	AREA-87	
BLDG	AREA-91	0
INSP	BLDG .	0
INSP	GARAGE	0
INSP	COPPER-SHOP	0
INSP	SHEET-METAL-SHOP	0
INSP	RIGGING	0
INSP	DEPT	0
INSP	OUTSIDE-MACH	0
INSP	SHOP.	0
INSP	AREA-51	0
INSP	AREA-60	0
INSP	AREA-65	0
INSP	AREA-70	0
INSP	AREA-74	0
	AREA-84	0
INSP	AREA-87	0
INSP		•

		_
INSP	AREA-91	0
BLDG.	GARAGE	0
BLDG.	COPPER-SHOP	0
BLDG.	SHEET-METAL-SHOP	0
BLDG.	RIGGING	0
BLDG.	DEPT	0
BLDG.	OUTSIDE-MACH	0
		0
BLDG.	SHOP.	
BLDG.	AREA-51	0
BLDG.	AREA-60	0
BLDG.	AREA-65	0
BLDG.	AREA-70	0
BLDG.	AREA-74	0
BLDG.	AREA-84	0
BLDG.	AREA-87	0
BLDG.	AREA-91	0
	COPPER-SHOP	0
GARAGE		
GARAGE	SHEET-METAL-SHOP	0
GARAGE	RIGGING.	0
GARAGE	DEPT	0
GARAGE	OUTSIDE-MACH	Ö
GARAGE	SHOP.	0
GARAGE	AREA-51	0
GARAGE	AREA-60	0
GARAGE	AREA-65	0
GARAGE	AREA-70	0
GARAGE	AREA-74	0
GARAGE	AREA-84	0
GARAGE	AREA-87	0
GARAGE	AREA-91	0
COPPER-SHOP	SHEET-METAL-SHOP	0
COPPER-SHOP	RIGGING	0
COPPER-SHOP	DEPT	0
COPPER-SHOP	OUTSIDE-MACH	0
COPPER-SHOP	SHOP.	0
COPPER-SHOP	AREA-51	0
COPPER-SHOP	AREA-60	0
COPPER-SHOP	AREA-65	0
COPPER-SHOP	ARE4-70	0
COPPER-SHOP	AREA-74	0
COPPER-SHOP	AREA-84	0
COPPER-SHOP	AREA-87	0
COPPER-SHOP	AREA-91	0
SHEET-METAL-SHOP	RIGGING	0
SHEET-METAL-SHOP	DEPT	Õ
		
SHEET-METAL-SHOP	OUTSIDE-MACH	0
SHEET-METAL-SHOP	SHOP.	0

SHEET-METAL-SHOP SHEET-METAL-SHOP SHEET-METAL-SHOP SHEET-METAL-SHOP SHEET-METAL-SHOP SHEET-METAL-SHOP	AREA-51 AREA-60 AREA-65 AREA-70 AREA-74 AREA-84 AREA-87	0 0 0 0 0 0
SHEET-METAL-SHOP RIGGING	AREA-91 DEPT	0
RIGGING	OUTSIDE-MACH	0
RIGGING RIGGING	SHOP. AREA-51	0
RIGGING	AREA-60	0
RIGGING	AREA-65	0
RIGGING	AREA-70	0
RIGGING	AREA-74	0
RIGGING	AREA-84 AREA-87	0 0
RIGGING RIGGING	AREA-91	0
DEPT	OUTSIDE-MACH	0
DEFT	SHOP.	0
DEPT	AREA-51	0
DEPT D E P T	AREA-60 AREA-65	0 0
DEPT	AREA-70	0
DEPT	AREA-74	0
DEPT	AREA-84	0
DEPT	AREA-87	0
DEPT OUTSIDE-MACH	AREA-91 SHOP .	0
OUTSIDE-MACH	AREA-51	0
OUTSIDE-MACH	AREA-60	0
OUTSIDE-MACH	AREA-65	0
OUTSIDE-MACH	AREA-70	0
OUTSIDE-MACH OUTSIDE-MACH	AREA-74 AREA-84	0 0
OUTSIDE-MACH	AREA-87	0
OUTSIDE-MACH	AREA-91	0
SHOP.	AREA-51	0
SHOP. SHOP.	AREA-60 AREA-65	0 0
SHOP.	AREA-70	0
SHOP.	AREA-74	0
SHOP.	AREA-84	0
SHOP.	AREA-87	0 0
SHOP. AREA-51	AREA-91 AREA-60	385
/((L/())	AIREA OO	966

	AREA-65	350
AREA-51	AREA-70	110
AREA-51	AREA-74	165
AREA-51	AREA-84	165
AREA-51	AREA-87	350
AREA-51	AREA-91	285
AREA-51	AREA-65	155
AREA-60	AREA-70	305
AREA-60 AREA-60	AREA-74	210
AREA-60	AREA-84	345
AREA-60	AREA-87	265
AREA-60	AREA-91	235
AREA-65	AREA-70	290
AREA-65	AREA-74	190
AREA-65	AREA-84	320 240
AREA-65	AREA-87	240
AREA-65	AREA-91	100
AREA-70	AREA-74	45
AREA-70	AREA-84	140
AREA-70	AREA-87	130
AREA-70	AREA-91	135
AREA-74	AREA-84 AREA-87	190
AREA-74	AREA-91	180
AREA-74	AREA-91	185
AREA-84	AREA-91	155
AREA-84	AREA-91	80
AREA-87	ANEA-91	

	YARD-ZONES		-
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	WATER .	! ! !	
! ROAD-1 ! ! ! ZONE-4 ! ZONE-2 ! ! !	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	! ZONE-7 ! ! ! !	! ! ZONE-10 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
! (X) (X)	ROAD-2		! ! !! ! ! ZONE-9!
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	! ! ZONE-6 ! !	! ! ZONE-8 !	! ! ! ! ! ! ! ! ! !
Name 	Location		Body/Fras/PT
WORKPLACES: YARD-ZONES ROAD-1 ROAD-2 WATER ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-7 ZONE-8 ZONE-9 ZONE-10	0,13 0,5 35,18 0,15 0,7 0,0 10,7 25,7 20,0 45,7 45,0	0,0 10,2 59,2 0,0 10,5 10,6 20,5 15,8 20,5 10,14 10,5 10,10	
OBJECTS: PALLETS BOLSTERS UNITS	YARD-ZONES YARD-ZONES YARD-ZONES		FRAG FRAG FRAG

EQUIPMENT:

SM-STRAD-E

FRK-E

FRK-L

FRK-S

SM-STRAD-E SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-S	YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES YARD-ZONES	04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROAD-2 ROAD-2	5,6 B 10,6
From	To	Steps
YARD-ZONES ROAD-1	ROAD-1 ROAD-2 WATER ZONE-I ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ROAD-2 UATER ZONE-1 ZONE-3 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-7 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-10 WATER ZONE-10 WATER ZONE-11	

YARD-ZONES

YARD-ZONES

YARD-ZONES

YARD-ZONES

03T

01T

02T

06T

ROAD-2 WATER TONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-3	ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-1 ZONE-2 ZONE-3 ZONE-4 Z O N E - 5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-2 ZONE-3 ZONE-4 Z O N E - 1 0 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 Z O N E - 1 0 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-6 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-9 Z O N E - 1 0 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-7 ZONE-8 ZONE-9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ZONE-3	ZONE-7	1290
ZONE-3	ZONE-8	1180

SECTION 3 MANUAL METHODS

1097. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . . FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-3
- 1098. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-4
- 1099. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-4
- 1100. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARII TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

1 TRANSPORT PALLET (EMPTY) FROM ZONE-4 USING FRK-E TO ZONE-7

1101. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATI PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING FRK-E TO ZONE-9
- 1102. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATI PER HOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . ..FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING FRK-E TO ZONE-7
- 1103, TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATI PER HOVE OR LIFT OFG: 4 $21-\mathrm{JUL}-83$

REPRESENTS ELAPSE~ TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . ..FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING FRK-E TO ZONE-9
- 1104. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATI PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING FRK-E TO ZONE-8

1105. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORN-DRIVER BEGINS AT ZONE-7

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING FRK-E TO ZONE-9
- 1106. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING FRK-E TO ZONE-9
- 1107. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . . FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING FRK-E TO ZONE-10
- 1108. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSEB TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET (EMPTY) FROM ZONE-9 USING FRK-E TO ZONE-10

1109. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTAT PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . . FORK TRUCK

FORK-DRIVER BEGINS AT AREA-2

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-2 USING FRK-E TO AREA-3
- 1115. TRANSPORT PALLET ON FORK TRUCK (ENPTY) AT ANY SHIPYARD TRANSPORTAT PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-1

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-1 USING FRK-E TO AREA-10-T
- 1112. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTAT PER HOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . ..FORK TRUCK

FORK-DRIVER BEGINS AT AREA-7

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-7 USING FRK-E TO AREA-9
- 1113. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTAT PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . ..FORK TRUCK

FORK-DRIVER BEGINS AT AREA-84

1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING FRK-E TO AREA-87

1114. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT AREA-70

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-70 USING FRK-E TO AREA-84
- 1115. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * . . .FORK TRUCK

FORN-DRIVER BEGINS AT AREA-65

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-65 USING FRK-E TO AREA-70
- 711. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-L TO ZONE-8 LOWER
- 712. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-L TO ZONE-9 LOWER

- 725. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANPORTA
 PER MOVE OR LIFT OFG: 4 18-JUL-83
 REPRESENTS ELAPSED TIME
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-6 LOWER
- 727. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTA
 PER MOUE OR LIFT OFG: 4 18-JUL-83
 REPRESENTS ELASPED TIME
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-8 LOWER
- 723. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTA PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . . FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-9 LOWER
- 734. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTA PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED.
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

1 TRANSPORT PALLET RAISE FROM ZONE-4 USING FRK-L TO ZONE-10 LOWER

738. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING FRK-L TO ZONE-9 LOWER
- 742. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET RAISE FROM ZONE-6 USING FRK-L TO ZONE-9 LOWER
- 745. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

- 1 TRANSPORT PALLET RAISE FROM ZONE-7 USING FRK-L TO ZONE-9 LOWER
- 747. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSEB TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING FRK-L TO ZONE-9 LOWER

754. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-S TO ZONE-6 LOWER
- 737. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET RAISE FROM ZONE-I USING FRK-S TO ZONE-9 LOWER
- 767. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . . FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-4 LOWER

772. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-9 LOWER
- 773. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-10 LOWER
- 790. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING FRK-S TO ZONE-9 LOWER

793. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * . . .FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING FRK-S TO ZONE-10 LOWER

SECTION 4 STANDARD TIME CALCULATION

4.1 TITLE SHEETS

TRANSPORT PALLET ON FORK TRUCK AT ANY SHIPYARD TRANSPORTATION

Titlesheet Organization List

Move

- 1097. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1098. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1099 TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARII TRANSPORTATION REPRESENTS ELAPSED TIME
- 1100. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1101. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1102. TRANSPORT PALLET ON FORK TRUCK (EHPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1103. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1104. TRANSPORT PALLET ON FORK TRUCK (EHPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1105. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1106. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1107. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1108. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1109. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION

STANDARD TIME CALCULATION

REPRESENTS ELAPSED TIME

- 1110. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATIO REPRESENTS ELAPSED TIME
- 1112. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATIO REPRESENTS ELAFSED TIME
- 1113. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1114. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATIO REPRESENTS ELAPSED TIME
- 1115. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATIO REPRESENTS ELAPSED TIME
- 711. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 712. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 725. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 7270. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 723. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 734. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAL REPRESENTS ELAPSED TIME
- 738. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 742. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 745. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME
- 747. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTAT REPRESENTS ELAPSED TIME

STANDARD TIME CALCULATION

- 754. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 757. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 767. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 772. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 773. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 790. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 793. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYAR~ TRANSPORTATION REPRESENTS ELAPSED TIME

STANDARD TIME CALCULATION

4.2 HOW TO CALCULATE TIME STANDARDS M O S T OPERATION TIME CALCULATION REV. LTR/DATE X DETAIL/UNIT/PART X STANDARD CODE X PROCESS/OPER CODE OPERATE PART NAME FORK TRUCK HULL SHIP CLASS TRANSPORTATION TRADE COST CLASS/JOB # WORK AREA SHIPYARD GROUP (UNIT/ZONE) X WORK ZONE SUB-GROUP WORK CENTER SUB-SUB-GROUP ASSET/MACHINE X CREW/MACHINE 1 DRIVER SUB-ITEM ITEM WORK ORDER GEN. DRAWING DET. DRAWING SHEET APPLICATOR WORK PACKAGE OPER. DESCRIPTION OPERATE FORK TRUCK ON A TYPICAL DAY 7:30 AM TO 12:00 NOON ISSUE # DATE 25-JUL-83 Frea Step Method Instruction TRANSPORT PALLET ON FORK TRUCK (EMPTY) (1113) * REPRESENTS HOVEMENT OF AN EMPTY * ...FORK TRUCK * 9-84-1 TO 9-87-5 TO GAS PUMP * FILL GAS TANK

TRANSPORT PALLET ON FORK TRUCK (EMPTY)

* REPRESENTS HOVEMENT OF AN EMPTY

(1113)

		•
	*FORK TRUCK	
_	# 9-87-5 TO 9-84-2 TO WAREHOUSE	. 740)
3	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(/42)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	
	*FORK TRUCK	
	# 9-84-2 TO 6-42-6 TO FAB SHOP	
	* MASONITE	
4	***************************************	(1103)
	* REPRESENTS HOVEHENT OF AN EMPTY	
	*FORK TRUCK	
	* 6-42-6 TO 9-84-1 TO WAREHOUSE	
5	TRANSPORT PALLET ON FORK TRUCK (SECURE)	(757)
	* REPRESENTS MOVEMENT OF A LOADED SECURE	
	*FORK TRUCK	
	* 9-84-1 TO 1-2-6 TO BASIN - NORTH	
	* BIN - VALVES	
6	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1109)
	* REPRESENTS HOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	★ 1-2-6 TO 1-3-7 TO BASIN - SOUTH	
	* CAN'T PICK UP LIFT	
7	JRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1098)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	* 1-3-7 TO 4-9-1 TO 9-WAY	
	* LOCAL MOVES - 30 DEPARTMENT	
8	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1112)
	* REPRESENTS HOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	* 4-9-1 TO 4-7-2 TO 7-WAY	
9	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(734)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	
	*FORK TRUCK	
	* 4-7-2 TO 10-5-1 TO DUMP	
	* TRASH-BIN	
10	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1108)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	* 10-5-1 TO 9-84-1 TO WAREHOUSE	
11	TRANSPORT PALLET ON FORK TRUCK (SECURE)	. (772)
	* REPRESENTS MOVEMENT OF A LOADED SECURE	
	*FORK TRUCK	
	* 9-84-1 TO 3-25-1 TO 25-AREA	
12	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1097)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	# 3-25-1 TO 1-1-4 TO BASIN - NORTH	

13	* CAN'T LOCATE LIFT TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1097)
	* REPRESENTS MOVEMENT OF AN EMPTY *FORK TRUCK	
	* 1-1-4 TO 3-25-3 TO 25-AREA	
14	TRANSPORT PALLET ON FORK TRUCK (SECURE)	(773)
	* REPRESENTS MOVEMENT OF A LOADED SECURE *FORK TRUCK	
	* 3-25-3 TO 10-5-1 TO DUMP	
	* SCRAP-PAN	
15	TRANSPORT PALLET ON FORK TRUCK (EMPTY) * REPRESENTS MOVEMENT OF AN EMPTY	(1108)
	*FORK TRUCK	
	* 10-5-1 TO 9-84-1 TO WAREHOUSE	. 5451
16	TRANSPORT PALLET ON FORK TRUCK (LOOSE) * REPRESENTS MOVEMENT OF A LOOSE LOADED	(/45)
	*FORK TRUCK	
	* 9-84-1 TO 7-52-8 TO PIPE SHOP	
17	* FALLET - SLEEVES TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1105)
1,	* REPRESENTS MOVEMENT OF AN EMPTY	(1100)
	*FORK TRUCK	
18	* 7-52-8 TO 9-84-1 TO WAREHOUSE TRANSPORT PALLET ON FORK TRUCK (SECURE)	. (790)
10	* REPRESENTS MOVEMENT OF A LOADED SECURE	, , , , , , ,
	*FORK TRUCK	
	* 9-84-1 TO 7-52-8 TO PIPE SHOP * BASKET - ELBOWS	
19		(1105)
	* REPRESENTS HOVEMENT OF AN EMPTY	
	*FORK TRUCK * 7-52-8 TO 9-84-1 TO WAREHOUSE	
20		(712)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	
	*FORK TRUCK * 9-84-1 TO 1-2-7 TO BASIN - NORTH	
	* PALLET - VALVES	
21		(1099)
	* REPRESENTS MOVEMENT OF AN EMPTY *FORK TRUCK	
	* 1-2-7 TO 6-42-3 TO FAB SHOP	
22		(754)
	* REPRESENTS MOVEMENT OF A LOADED SECURE *FORK TRUCK	
	* 6-42-3 TO 1-1-8 TO BASIN - NORTH	
	* BIN - BRACKETS	
23	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1097)

	* REPRESENTS HOVEMENT OF AN EMPTY	
	*FORK TRUCK	
~ .	* 1-1-8 TO 3-1-2 TO PLATE BLASTER	4 7/71
24		(/6/)
	* REPRESENTS HOVEMENT OF A LOADED SECURE	
	*FORK TRUCK	
	* 3-1-2 TO 4-8-2 TO 8-WAY (MAINTENANCE)	
25	* BIN - CONVEYOR BELT TRANSPORT PALLET ON FORK TRUCK (EMPTY)	/ 4400\
23	* REPRESENTS MOVEMENT OF AN EMPTY	(1100)
	* ***FORK TRUCK	
	* 4-8-2 TO 7-1-2 TO 1-PIER	
26		/ 7001
20	* REPRESENTS MOVEMENT OF A LOADED SECURE	(/70)
	*FORK TRUCK	
	* 7-1-2 TO 9-70-6 TO ELECTRIC SHOP	
	* BIN - CABLES	
27		(1114)
_,	* REPRESENTS MOVEMENT OF AN EMPTY	/ III-1/
	. * FORK TRUCK	
	* 9-70-6 TO 9-84-1 TO WAREHOUSE	
28		(747)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	\ / 1//
	* * * FORK TRUCK	
	# 9-84-1 TO 8-4-1 TO EMPLOYMENT OFFICE	
	* PALLET - BOXES	
29		(1106)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	# 8-4-1 TO 9-74-10 TO SHEET METAL SHOP	
30	•	(738)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	
	*FORK TRUCK	
	★ 9-74-10 TO 5-34-8 (BLAST - HUT)	
	* PALLET - BRACKETS	
31	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1101)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	
	* 5-34-8 TO 9-84-2 TO WAREHOUSE	
32		(745)
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	
	*FORK TRUCK	
	* 9-84-2 TO 7-1-2 TO 1-PIER	
	* PALLET - BRACKETS	
33	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1104)
	* REPRESENTS MOVEMENT OF AN EMPTY	
	*FORK TRUCK	

* 7-1-2 TO 8-58-4 TO BOILER SHOP TRANSPORT PALLET ON FORK TRUCK (SECURE) * REPRESENTS MOVEMENT OF A LOADED SECURE	(793)
*FORK TRUCK	
* 8-58-4 TO 10-5-1 TO DUMP	
* SCRAP-PAN	(1107)
TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1107)
* REPRESENTS MOVEMENT OF AN EMPTY	
*FORK TRUCK	
* 10-5-1 TO 8-3-4 TO SUPT. BLDG.	
* LUNCH	
	TRANSPORT PALLET ON FORK TRUCK (SECURE) * REPRESENTS MOVEMENT OF A LOADED SECURE *FORK TRUCK * 8-58-4 TO 10-5-1 TO DUMP * SCRAP-PAN TRANSPORT PALLET ON FORK TRUCK (EMPTY) * REPRESENTS MOVEMENT OF AN EMPTY *FORK TRUCK * 10-5-1 TO 8-3-4 TO SUPT. BLDG.

MOST OPERATION TIME CALCULATION

STEP	SA	FREQ	INTERNAL TMU	EXTERNAL TMU	LOC #
1	0.00	1.00		4700.	1113
1 2	0.00	1.00		4700.	1113
3	0.00	1.00		19700.	742
4	0.00	1.00		9000.	1103
5	0.00	1.00		22000.	757
6	0.00	1.00		6500.	1109
7	0.00	1.00		10400.	1098
8	0.00	1.00		4700.	1112
9	0.00	1.00		2440.	734
10	0.00	1.00		7700.	1108
11	0.00	1.00		22000.	772
12	0.00	1.00		7700.	1097
13	0.00	1.00		7700.	1097
14	0.00	1.00		24400.	773
15	0.00	1.00		7700.	1108
16	0.00	1.00		17600.	745
17	0.00	1.00		9000.	1105
18	0.00	1.00		17600.	790
19 20	0.00	1.00		9000.	1105 712
	0.00	1.00		24400. 10400.	
21 22	0.00 0.00	1.00 1.00		19700 •	1099 754
23	0.00	1.00		7700.	1097
	0.00	1.00		17600.	767
24 25	0.00	1.00		10400.	1100
26	0.00	1.00		17600.	790
27	0.00	1.00		3900.	1114
28	0.00	1.00		17600.	747
29	0.00	1.00		7700.	1106
30	0.00	1.00		19700.	738
31	0.00	1.00		9000.	1101
32	0.00	1.00		17600.	745
33	0.00	1.00		6500.	1104
34	0.00	1.00		19700.	793
35	0.00	1.00		10400.	1107

MANUAL TIME(TMU)

0. 456400.

ACTUAL PROCESS TIME(TMU)

0. 0.

FACTORED PROCESS TIME(TMU)		0.
TOTAL INTERNAL TIME(TMU)		0.
TITLE SHEET USED IN SETTING STANDARD:	0	

H O S T OPERATION TIME CALCULATION

Engineered Operation Time Calculation

Elemental Percent Allowance Standard Type of Work Time Allowance Time Time EXTERNAL MANUAL 4.564 0.000 4.564 ASSIGNED INTERNAL (0.000) () (0.000) (0.000) 0.000 0.000 0.000 PROCESS TIME 4.564 0.000 4.564 STANDARD (HRS./CYCLE) PIECES PER CYCLE 1 STANDARD HOURS 4.6

STANDAPP T-

H O S T OPERATION TIME CALCULATION REV. LTR/DATE X DETAIL/UNIT/PART STANDARD CODE X PROCESS/OPER CODE OPERATE PART NAME FORK TRUCK HULL SHIP CLASS TRADE TRANSPORTATION COST CLASS/JOB # WORK AREA SHIPYARD GROUP (UNIT/ZONE) X WORK ZONE SUB-GROUP X WORK CENTER SUB-SUB-GROUP ASSET/MACHINE X 1 DRIVER CREW/MACHINE SUB-ITEM ITEM WORK ORDER GEN. DRAWING SHEET DET. DRAWING APPLICATOR WORK PACKAGE OPER. DESCRIPTION OPERATE FORK TRUCK ON A TYPICAL DAY 12:30 PM TO 4:00 PM ISSUE # 3 DATE 25-JUL-83 Free S

Step	Method Instruction	
1	TRANSPORT PALLET ON FORK TRUCK (LOOSE) * REPRESENTS MOVEMENT OF A LOOSE LOADED *FORK TRUCK	(727)
	* 8-3-4 TO 3-1-1 TO PLATE BLASTER * PALLET - PAINT	
2	TRANSPORT PALLET ON FORK TRUCK (EMPTY) ** REPRESENTS MOVEMENT OF AN EMPTY *FORK TRUCK	(1110)
	* 3-1-1 TO 3-12-42 TO RACK STORAGE	

3	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(725)	
	* REPRESENTS MOVEMENT OF A LOOSE LOADED		
	*FORK TRUCK		
	* 3-12-42 TO 6-42-2 TO FAB SHOP		
	* PALLET - BRACKETS TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1100)	
4		(1102)	
	* REPRESENTS MOVEMENT OF AN EMPTY		
	*FORK TRUCK		
_	* 6-42-2 TO 7-52-20 TO PIPE SHOP	/ 7001	
5	TRANSPORT PALLET ON FORK TRUCK (SECURE) * REPRESENTS MOVEMENT OF A LOADED SECURE	(/70)	
•	*FORK TRUCK		
	* 7-52-20 TO 9-70-6 TO ELECTRIC SHOP * BIN - TEMPORARY LIGHTS		
		(1115)	
6	* REPRESENTS HOVEMENT OF AN EMPTY	(1113/	
	*FORK TRUCK		
	# 9-70-6 TO 9-65-1 TO RIGGING DEPARTMENT		
	* LIFT NOT THERE		
7	THE STATE OF THE S	(1106)	
•	* REPRESENTS MOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	# 9-65-1 TO 8-3-4 TO SUPT. BLDG.		
	* PICK UP LIFT LIST		
8	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1106)	
	* REPRESENTS HOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	* 8-3-4 TO 9-84-1 TO WAREHOUSE		
9	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(723)	
	* REPRESENTS HOVEMENT OF A LOOSE LOADED		
	*FORK TRUCK		
	# 9-84-1 TO 3-1-1 TO PLATE BLASTER		
4.0	* PALLET - PAINT TRANSPORT PALLET ON FORK TRUCK (EMPTY)	. / 10021	
10	* REPRESENTS HOUSEHENT OF AN EMPTY	(107//	
	* ***FORK TRUCK		
	* 3-1-1 TO 1-3-7 TO BASIN - SOUTH		
11		(711)	
11	* REPRESENTS HOVEMENT OF A LOOSE LOADED	\ /11/	
	*FORK TRUCK		
	* 1-3-7 TO 8-1-5 TO MAINTENANCE		
	* PALLET - PUMP		
12	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1104)	
	* REPRESENTS HOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	* 8-1-5 TO 7-1-2 TO 1-PIER		
13	TRANSPORT PALLET ON FORK TRUCK (SECURE)	(790)	

2

	* REPRESENTS HOVEMENT OF A LOADED SECURE		
	*FORK TRUCK * 7-1-2 TO 9-70-6 TO ELECTRIC SHOP		
	* BIN - CABLES		
14	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1105)	
	* REPRESENTS HOVEHENT OF AN EMPTY		
	*FORK TRUCK	•	
	* 9-70-6 TO 7-1-2 TO 1-PIER		
15	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1114)	
	* REPRESENTS HOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	* 9-70-6 TO 9-84-1 TO WAREHOUSE		
16	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(745)	
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	•	
	*FORK TRUCK		
	* 9-84-1 TO 7-1-2 TO 1-PIER		
17	* PALLET -BRACKETS TRANSPORT PALLET ON FORK TRUCK (EMPTY)	/ 1105)	
17	* REPRESENTS MOVEMENT OF AN EMPTY	(1103)	
	* * * * * FORK TRUCK		
	* 7-1-2 TO 9-84-1 TO WAREHOUSE		
18	TRANSPORT PALLET ON FORK TRUCK (LOOSE)	(723)	4
	* REPRESENTS MOVEMENT OF A LOOSE LOADED	, , , , , ,	•
	*FORK TRUCK		
	\$ 9-84-1 TO 7-75-1 TO PAINT SHOP		
	* PALLET - PAINT		
19	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1105)	4
	* REPRESENTS MOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	* 7-75-1 TO 9-84-1 TO WAREHOUSE		
20	TRANSPORT PALLET ON FORK TRUCK (EMPTY)	(1113)	
	* REPRESENTS MOVEMENT OF AN EMPTY		
	*FORK TRUCK		
	* 9-84-1 TO 9-87-5 TO GARAGE		
	* END OF SHIFT		

MO S T OPERATION TIME CALCULATION

STEP	SA	FREQ		EXTERNAL TMU	LOC #
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		19700. 4700. 17600. 9000. 17600. 5500. 7700. 22000. 7700. 22000. 6500. 35200. 9000. 3900. 17600. 9000. 88000. 36000. 4700.	1110 725 1102 790 1115 1106 1106 723 1097 711 1104 790 1105 1114 745 1105 723 1105
MANUAL TIME(TMU) ACTUAL PROCESS TIME(TMU)			0.	807500.	
FACTORED PROCESS TIME(TMU)			0.		
TOTAL INTERNAL TIME(TWJ)			0.		

TITLE SHEET USED IN SETTING STANDARD: 0

M O S T OPERATION TIME CALCULATION

Engineered Operation Time Calculation

Type of work	Elemental Time	Percent Allowance	Allowance Time	Standard Time
EXTERNAL MANUAL	3.511		0.000	3.511
ASSIGNED INTERNAL	(0.000)	()	0.000) (0.000)
PROCESS TIME	0.000		0.000	0.000
STANDARD(HRS./CYCLE)	3.511		0.000	3.511
PIECES PER CYCLE	1			
STANDARD HOURS				3.5

SECTION 5 DATA SYNTHESIS AND BACK-UP

5.1 SUMMARY

1097. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 7700.

1098. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83
REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 10400.

1099. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83
REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 10400.

1100. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

TOTAL TMU 10400.

1101. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

TOTAL TMU 9000.

1102. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: $4\ 21-\mathrm{JUL}-83$

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

TOTAL TMU 9000.

1103. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

TOTAL TMU 9000.

1104. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83'

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

TOTAL TMU 6500.

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1105. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- *...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

TOTAL TMU 9000.

1106. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

TOTAL TMU 7700.

1107. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME -

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

TOTAL TMU 10400,

1108. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- *...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-9

TOTAL TMU 7700 .

1109. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-2

TOTAL TMU 6500.

1110. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-1

TOTAL TMU 4700.

1112. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-7

TOTAL TMU 4700.

1113. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83
REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-84

TOTAL TMU 4700.

1114. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-70

TOTAL TMU 3900.

1115. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-65

TOTAL TMU 5500.

711. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 22000.

712. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER HOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 24400.

- 725. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83 REPRESENTS ELAPSED TIME
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 17600.

727. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 19700.

723. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 22000.

734. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83
REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOOSE LOADED

* ... FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

TOTAL TMU 24400.

738. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

TOTAL TMU 19700,

742. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK(TRUCK

FORK-DRIVER BEGINS AT ZONE-6

TOTAL TMU 19700.

745. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSFORMATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

TOTAL TMU 17600.

 $747.\ TRANSPORT$ PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

TOTAL TMU . 17600 .

754. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

TOTAL TMU 19700.

757. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-I

TOTAL TMU 22000.

767. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 17600.

772. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 22000.

773. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

TOTAL TMU 24400.

790. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED THE

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER REGINS AT ZONE-7

TOTAL TMU 17600.

793. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

TOTAL TMU 19700.

5.2 SYNTHESIS AND ANALYSIS

1097. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-3 Al S6 T16 LO T54 LO TO AO 1.00 7700.

TOTAL TMU 7700

1098. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-4 Al S6 T16 LO T81 LO TO AO 1.00 10400.

TOTAL TMU 10400

1099. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING FRK-E TO ZONE-6 Al S6 T16 LO T81 LO TO AO 1000 10400.

TOTAL TMU 10400.

1100. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER HOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

1 TRANSPORT PALLET (EMPTY) FROM ZONE-4 USING FRK-E TO ZONE-7
Al S6 T16 LO T81 LO TO AO 1.00 10400.

TOTAL TMU 10400.

1101. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING FRK-E TO ZONE-9 Al S6 T16 LO T67 LO TO AO 1.00 9000.

TOTAL TMU 9000.

1102. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING FRK-E TO ZONE-7 Al S6 T16 LO T67 LO TO AO 1.00 9000.

TOTAL TMU 9000.

1103. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING FRK-E TO ZONE-9 Al S6 T16 LO T67 LO TO AO 1.00 9000.

TOTAL TMU 9000.

1104. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING FRK-E TO ZONE-8 Al S6 T16 LO T42 LO TO AO 1.00 6500.

TOTAL TMU 6500.

1105. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7-

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING FRK-E TO ZONE-9 Al S6 T16 LO T47 LO TO AO 1.00 9000.

TOTAL TMU 9000.

1106. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING FRK-E TO ZONE-9
Al S4 T16 LO TS4 LO TO AO 1.00 7700

TOTAL TMU 7700.

11070. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: $4\ 21-\mathrm{JUL}-83$

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING FRK-E TO ZONE-10 Al S6 T16 LO T81 LO TO AO 1.00 10400.

TOTAL TMU 10400.

1108. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK(TRUCK

FORK-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET (.EMPTY) FROM ZONE-9 USING FRK-E TO ZONE-10
A-1 S6 T16 LO TS4 LO TO AO 1.00 7700

TOTAL TMU 7700.

1109. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-2

1 TRANSPORT PALLET (EMPTY) FROM AREA-2 USING FRK-E TO AREA-3 At S6 T16 LO T42 LO TO AO 1.00 6500 .

TOTAL TMU 6500.

1110. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-1

1 TRANSPORT PALLET (EMPTY) FROM AREA-1 USING FRK-E TO AREA-10-TO-23 Al- S6 T16 LO T24 LO TO AO 1.00 4700.

TOTAL TMU 4700.

1112. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-7

1 TRANSPORT PALLET (EMPTY) FROM AREA-7 USING FRK-E TO AREA-9
Al S6 T16 LO T24 LO TO AO 1.00 4700.

TOTAL TMU 4700.

1113. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-84

1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING FRK-E TO AREA-87
A1 S6 T16 L0 T24 L0 T0 A0 1.00 4700.

TOTAL THU 4700

1114. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS HOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-70

1 TRANSPORT PALLET (EMPTY) FROM AREA-70 USING FRK-E TO AREA-84
A1 S6 T16 L0 T16 L0 T0 A0 1.00 3900

TOTAL THU 3900.

1115. TRANSPORT PALLET ON FORK TRUCK (EMPTY) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 21-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS HOVEMENT OF AN EMPTY

* ...FORK TRUCK

FORK-DRIVER BEGINS AT AREA-65

1 TRANSPORT PALLET (EMPTY) FROM AREA-65 USING FRK-E TO AREA-70 A1 S6 T16 L0 T32 L0 T0 A0 1.00 5500.

TOTAL THU 5500.

711. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-L TO ZONE-8 LOWER
A1 S6 T1 L10 T196L6 T0 A0 1.00 22000.

TOTAL THU 22000.

712. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-L TO ZONE-9 LOWER
A1 S6 T1 L10 T220L6 T0 A0 1.00 24400.

TOTAL THU 24400.

725. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-6 LOWER
A1 S6 T1 L10 T152L6 T0 A0 1.00 17600.

TOTAL THU 17600.

727. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-8 LOWER A1 S6 T1 L10 T173L6 TO A0 1.00 19700.

TOTAL THU 19700.

723. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-L TO ZONE-9 LOWER
A1 S6 T1 L10 T196L6 T0 A0 1.00 22000.

TOTAL THU 22000.

734. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-4

1 TRANSPORT PALLET RAISE FROM ZONE-4 USING FRK-L TO ZONE-10 LOWER A1 S6 T1 L10 T220L6 TO A0 1.00 24400.

TOTAL THU 24400.

738. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOOSE LOADED

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING FRK-L TO ZONE-9 LOWER A1 S6 T1 L10 T173L6 T0 A0 1.00 19700.

TOTAL THU 19700.

742. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOOSE LOADED

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-6 USING FRK-L TO ZONE-9 LOWER A1 S6 T1 L10 T173L6 TO A0 1.00 19700.

TOTAL THU 19700.

745. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOOSE LOADED

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING FRK-L TO ZONE-9 LOWER
A1 S6 T1 L10 T152L6 T0 A0 1.00 17600.

TOTAL THU 17600.

747. TRANSPORT PALLET ON FORK TRUCK (LOOSE) AT ANY SHIPYARD TRANSPORTATION PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS HOVEMENT OF A LOOSE LOADED
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT FALLET RAISE FROM ZONE-8 USING FRK-L TO ZONE-9 LOWER A1 S6 T1 L10 T152L6 TO A0 1.00 17600.

TOTAL THU

17600.

754. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-S TO ZONE-6 LOWER
A1 S6 T1 L10 T173L6 TO A0 1.00 19700.

TOTAL THU 1

19700.

757. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING FRK-S TO ZONE-9 LOWER
A1 S6 T1 L10 T196L6 TO A0 1.00 22000.

TOTAL THU 22000.

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767. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-4 LOWER
Al S6 T1 L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600.

772. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-9 LOWER Al S6 T1 L10 T196L6 TO AO 1.00 22000.

TOTAL TMU 22000.

773. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOADED SECURE
- * ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING FRK-S TO ZONE-10 LOWER Al S6 T1 L10 T220L6 TO AO 1.00 24400.

TOTAL TMU 24400.

790. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83 REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOADED SECURE

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING FRK-S TO ZONE-9 LOWER A1 S6 T1 L10 T152L6 TO A0 1.00 17600

TOTAL THU 17600.

793. TRANSPORT PALLET ON FORK TRUCK (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 18-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF A LOADED SECURE

* ...FORK TRUCK

FORK-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING FRK-S TO ZONE-10 LOWER A1 S6 T1 L10 T173L6 T0 A0 1.00 19700.

TOTAL TMU 19700.

WORK MANAGEMENT MANUAL

BACK-UP DATA for MATERIAL HANDLING EQUIPMENT SMALL STRADDLE CARRIER

Prepared for

SNAME Panel SP-8 KarAd Task. ES-8-15 Under direction of H.B. MAYnard & Co.

Prepared by

Industrial Engineering Department.
Bethlehem Steel Corporation
Marine Construction Group
Sparrows Point, Haryland
July, 1983

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SECTION 1 SCOPE

This manual contains the back-up data for the small straddle carrier movements on a typical day. The data includes the pertinent work areas, titlesheets, time standards and manual methods. Any further information about the small straddle carrier or arts **Of** the data can be found in the general work Management Manual on Material Handling Equipment.

SECTION 2 JOB LAYOUT - WORK AREAS

•	YARD-ZO	NES	_
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	WATER	! ! !	! ! ! ! ! ! ! ! ! ! ZONE-10 !
! ROAD-1 !	!!	! ! ZONE-7	! ! ZURE=10 ! ! ! ! !
! ! ZONE ! ZONE-2 ! ! !	-4 ! ZONE-5 ! !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
! (X) (X)	ROAD-2		[] ; 70NE 0 !
! ! ZONE-3 !	! ! ! ZONE-6 !	! ! ! ! ZONE-8 ! !	! ZONE-9 ! ! ! ! ! ! ! ! !
Name	Loca	tion	Body/fras/PT
WORKPLACES: YARD-ZONES ROAD-1 ROAD-2 WATER ZONE-1 ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10	35,21 0,13 0,5 35,18 0,15 0,7 0,0 10,7 25,7 20,0 45,7 45,0 60,0	10,2 59,2 0,0 10,5 10,6 20,5 15,8 20,5 10,14 10,5	
OBJECTS: PALLETS BOLSTERS UNITS	YARD-Z YARD-Z YARD-Z	ZONES	FRAG FRAG FRAG

PAGE 4

EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-S	YARD-ZONES	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-BRIUER	ROAD-2 ROAD-2	5,6 B 10,6
From	То	Steps
YARD-ZONES	ROAD-1 ROAD-2 WATER ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ROAD-2 WATER ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-3 ZONE-4 ZONE-5 ZONE-5 ZONE-7 ZONE-6 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-9 ZONE-10 WATER ZONE-10	

ROAD-2 ROAD-2 ROAD-2 ROAD-2 ROAD-2 ROAD-2 ROAD-2 ROAD-2 ROAD-2 WATER WATER WATER WATER WATER WATER WATER WATER WATER TONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-1 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-2 ZONE-3 ZONE-4 ZONE-4	ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-11 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-5 ZONE-10 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ZONE-4 ZONE-4 ZONE-4	ZONE-6 ZONE-7 ZONE-8	1250 1140

ZONE-5-AREA-34-SQUARES

!!!S25	· 			 97.	!	!
!S29!! !	!	! S15!	 I	 S	!	!
!S28! !!	! S24 !	! S14!		رو 	! !	!
	!	! S13!		!		!
! S27!	! S23 !	! S12!			!	י ! ! ד מתר מ
AREA-34	!	! S11!		! S	4 !!! ! S3 !	AREA-1 ! !
!!!	! S22 !	! S10!			. 53 . !	!
No6-HEADHOUSE !!	!	!S9!		!	! S2 !	
	! S21 !	! S 8 !		; 	!	: !
! S26!	 S	20			S1 !	
! (x) (x)		ROADWAY				

Name	Locatio	n 	Body/Frag/PT
WORKPLACES: ZONE-5-AREA-34-SQUARES	35,21	0,0	
ROADWAY	0,0	71,2	
AREA-34	15,10	0,0	
AREA-1		10,18	
No6-HEADHOUSE	0,5	5,4	
S1 S2	50,2	10,2	
	50,4		
S3	55,8	5,2	
S4	50,9		
S5	50,13		
S6	45,16		
S7	45,19	15,1 5,2	
S8	35,3		
S9	35,5	5,2	
S10	35,7		
Sll	35,9	5,2	
S12	35,11		
S13	35,13		
S14	35,15	5,2	

\$15 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29	35,17 25,2 25,3 25,7 25,11 25,15 10,19 0,2 0,10 5,15 0,17	5,2 15,0 10,4 10,4 10,4 15,1 5,2 5,4 4,5	
OBJECTS: PALLETS BOLSTERS UNITS	AREA-34 AREA-34 AREA-34		FRAG FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-E LG-STRAD-L	ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY		03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROADWAY ROADWAY		10,1 B 15,1
From	То	_	Steps
ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-3-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES ZONE-5-AREA-34-SQUARES	ROADWAY AREA-34 AREA-1 NO6-HEADH S1 S2 S3 S4 S5 S6	OUSE	0 0 0 0 0 0 0

ZONE-5-AREA-34-SQUARES	S8	0
ZONE-5-AREA-34-SQUARES	S9	0
ZONE-5-AREA-34-SQUARES	S10	0
ZONE-5-AREA-34-SQUARES	S11	0
ZONE-5-AREA-34-SQUARES	S12	0
ZONE-5-AREA-34-SQUARES	S13	0
ZONE-5-AREA-34-SQUARES	S14	0
ZONE-5-AREA-34-SQUARES	S15	0
ZONE-5-AREA-34-SQUARES	S20	0
ZONE-5-AREA-34-SQUARES	S21	0
ZONE-5-AREA-34-SQUARES	S22	0
ZONE-5-AREA-34-SQUARES	S23	0
ZONE-5-AREA-34-SQUARES	S24	0
ZONE-5-AREA-34-SQUARES	S25	0
ZONE-5-AREA-34-SQUARES	S26	0
ZONE-5-AREA-34-SQUARES	S27	0
ZONE-5-AREA-34-SQUARES	\$28	0
ZONE-5-AREA-34-SQUARES	S29	0
ROADWAY	AREA-34	0
ROADWAY	AREA-1	0
ROADWAY	NO,-6-HEADHOUSE	0
ROADWAY	S1	0
ROADWAY	S2	0
ROADWAY	S3 S4	0
ROADWAY	S5	0
ROADWAY	S6	0
ROADWAY ROADWAY	S7	0
ROADWAY	S8	0
ROADWAY	S9	0
ROADWAY	S10	0
ROADWAY		0
ROADWAY	S11 S12	0
ROADWAY	S13	0
ROADWAY	S14	0
ROADWAY	S15	0
ROADWAY	S20	0
ROADWAY	S21	0
ROADWAY	S22	0
ROADWAY	S23	0
ROADWAY	S24	0
ROADWAY	S25	0
ROADWAY	S26	0
ROADWAY	\$27	0
ROADWAY	S28	0
ROADWAY	S29	0
AREA-34	AREA-1	0

AREA-34	NO6-HEADHOUSE	0
AREA-34	S1	0
AREA-34	\$2	0
AREA-34	\$3	0
AREA-34	S4	0
AREA-34	S5	0
AREA-34	S6	0
AREA-34	S7	0
AREA-34	S8	0
AREA-34	S9	0
AREA-34	S10	0
AREA-34	S11	0
AREA-34	S12	0
AREA-34	S13	0
AREA-34	S14	0
AREA-34	S15	0
AREA-34	S20	0
AREA-34	S21 S22	0
AREA-34		0
AREA-34	S23	0
AREA-34	S24	0
AREA-34	S25	0
AREA-34	S26	0
AREA-34	S27 S28	0
AREA-34	S29	0
AREA-34	NO6-HEADHOUSE	0
AREA-1	S1	0
AREA-1	\$1 \$2	0
AREA-1	S3	0
AREA-1 AREA-1	\$4	0
AREA-1	S5	0
AREA-1 AREA-1	S6	0
AREA-1	S7	0
AREA-1	S8	0
AREA-1	S9	0
AREA-1	S10	0
AREA-1	S11	0
AREA-1	S12	0
AREA-1	S13	0
AREA-1	S14	0
AREA-1	S15	0
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AREA-1	S25	0
AREA-1	S26	0
	S27	0
AREA-1	S28	0
AREA-1	\$29	0
AREA-1	S1	0
NO6-HEADHOUSE	S2	0
NO6-HEADHOUSE	S3	0
N136-HEADHOUSE	S4	0
NO6-HEADHOUSE	S5	0
NO6-HEADHOUSE	S6	0
NO6-HEADHOUSE	S7	0
NO6-HEADHOUSE	S8	0
NO6-HEADHOUSE	S9	0
NO6-HEADHOUSE	S10	0
NO6-HEADHOUSE	S11	0
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NO6-HEADHOUSE	S14	0
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No6-HEADHOUSE	S20	0
NO6-HEADHOUSE	S21	0
No6-HEADHOUSE		0
No6-HEADHOUSE	S22 S23	0
NO6-HEADHOUSE	S24	0
NO6-HEADHOUSE	S25	0
No6-HEADHOUSE	S26	0
NO6-HEADHOUSE No6-HEADHOUSE	S27	0
NO6-HEADHOUSE	S28	0
NO6-HEADHOUSE NO6-HEADHOUSE	S29	0
	S2	80
S1 S1	S3	148
S1 S1	S4	155
S1 S1	S5	195
S1 S1	S6	215
S1 S1	s7	245
S1 S1	S8	85
S1 S1	S9	110
	S10	135
S1	S11	160
S1	S12	185
S1	S13	210
S1 S1	S14	235
S1 S1	S15	260
S1 S1	S20	80
S1	S21	156
S1 S1	S22	200
SΙ		

S1 S1	S23 S24	250
S1 S1	S25	300 345
S1	S26	195
S1	S27 S28	340
S1	S29	430
S1 S2	S3	450 70
S2	S4	85
S2	S3	170
S2 S2	S6 S7	185 220
S2	S8	70
S2	S9	70
S2	\$10	95 120
S2 S2	S11 S12	120 145
S2 S2	S12 S13	$145 \\ 170$
S2	S14	185 220
S2 S2	S15	
S2	S20 S21	115 90
S2 S2	S22	140
S2 S2	S23	185
S2	s24 S25	23S 280
S2	S26	175
S2 S2 S2	S27	305
S2	S28	395
S2 S3	S29 S4	415 45
S3	S5	70
S3	S6	100
S3 S3	S7 S8	135 130
S3	S9	105
S3 S3	S10	80
S3 S3	S11 S12	80
S3	S12 S13	105 130
S3	S14	155
S3	S15	180
S3 S3	S20 S21	185
S3	S21 S22	165 115
S3	S23	145
S3	S24	195

S3	S25	240
S3	S26	260
S3	S27	285
	S28	375
S3	520 G20	395
\$3	S29	
S4	S5	50
S4	S6	60
S4	S7	95
S4	S8	145
S4	S9	120
S4	S10	95
S4	S11	70
S4	S12	55
S4	S13	80
S4	S14	105
	S15	130
S4		
S4	S20	190
S4	S21	115
S4	S22	165
S4	S23 S24	105
S4		155 200
S4	S25 S26	
S4	S26	265 220
S4	S27	220
S4	S28	310
S4	S29	330
S5	S6	35
S5	S7	70
55 GE	S8	195
S5	20	170
S5	S9	
S5	\$10	145 120
S5	S11	
S5	S12	95
S5	S13	70
S5	S14	85
S5	S15	110
S5 S5	\$20	235
S5	S21	215
S5	S22	165
S5	S23	115
S5	S24	145
S5	S25	190
S5 S5	S26	310
ລນ ce	S27	200
S5	S27 S28	285
S5		
S5	S29	305
S6	S7	35

S6	S8	210
S6	S9	185
S6 S6	S10 S11	160 135
S6	S12	110
S6	S13	85
S6	\$14	60
S6	S15 S20	75 250
S6 S6	S21	245
S6	S22	195
S6	S23	145
S6 S6	S24 S25	95 140
S6	S26	140 325
S6	S27	180
S6	S28 S29	250 270
S6 S7	S8	240
S7	S9	215
S7	\$10	190
S7 S7	S11 S12	165 140
S7	S13	115
S7	S14	90
S7 S7	S15 S20	65 285
S7	S21	270 220
S7	S22	
S7	S23 S24	170 120
S7 S7	S25	105
S7	S26	355
S7	\$27 \$28	210 220
S7 S7	S29	240
S8	S9	25
S8	\$10	50
S8 S8	S11 S12	75 100
S8	S12 S13	100 125
S8	S14	150
S8 S8	S15 S20	175 40
S8	S20 S21	45
S8	S22	95
S8	S23	145

S8	S24	195
S8	S25	240
S8	S26 S27	120 265
S8 S8	S28	345
S8	S29	380
S9	S10	25
S9	S11	50
S9	S12	75
S9	\$13	100 125
\$9	S14	150
S9	S15 S20	65
S9 S9	S21	60
S9	S22	90
S9	S23 S24	140
S9		190
S9	S25 S26	233
S9	S27	145 245
S9 S9	S28	320
S9	S29	355
S10	S11	25
S10	S12	50
S10	S13	75
S10	S14	100
S10	S15 S20	125 90
S10 S10	S21	85
S10	S22	65
S10	\$23 \$24	113
S10		165
S10	S25 S26	210
S10	S27	170 220
S10 S10	S27 S28	295
S10 S10	S29	330 25
S11	S12	
S11	S13	50
S11	S14	75
S11	S15	100
S11	S20 S21	110 110
S11 S11	S21 S22	60
S11 S11		110
S11	S23 S24	160
S11	S25	205

S11	S26	195
S11	S27	195
S11	S28	270
S11	S29	305
	S13	25
S12 S12	S14	50
S12	S15	75
S12	S20	140
S12		135
S12	S21 S22	85
S12	S23	70
S12	S24	120
S12	S25	165
S12	S26	220
S12	S27	170
S12	S28	245 280
S12	S29	
S13	S14	25
S13	S13	50
S13	S20	160
S13	S21	160
S13	S22	110
S13	S23	60
S13	S24	85
S13	S25	130
S13	S26	245
S13	\$27	145
S13	S28	220
S13	S29	255
S14	S15	25
S14 S14	S20	190
S14 S14	S21	
S14 S14		185
	S22 S23	135
S14		85
S14	S24	60
S14	S25	105
S14	S26	270
\$14	S27	120
S14	S28	195 230
S14	S29	
S15	S20	210
S15	\$21	205
S15	S22	155
S15	S23 S24	105
S15		60
S15	S25	85
S15	S26	295

\$27	145
\$28	170
\$29	205
\$21	45
\$22	95
\$23	145
\$24	195
\$25	240
\$26	120
\$27	265
\$28	340
\$29	370
\$22	50
\$23	100
\$24	150
\$25	115
\$26	225
S27 S28 S29	290 330
S23	50
S24	100
\$25 \$26 \$27 \$28 \$29 \$24 \$25 \$26 \$27 \$28 \$29 \$25 \$26 \$27 \$28 \$29 \$26 \$27 \$28 \$29 \$27 \$28 \$29 \$29 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$22 \$23 \$24 \$25 \$25 \$26 \$27 \$28 \$29 \$25 \$26 \$27 \$28 \$29 \$29 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	145 165 175 240 280 50 95 215 125 190 230 45 265 100 140 180 310 145 95 135 120 270 250
	\$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$29 \$21 \$22 \$22 \$22 \$22 \$22 \$22 \$22

S28 S29 20

ZONE-6-AREA-42-SQUARES

!!!S13! SHEAR			!-MOLD-STORAGE-2 !
! ! ! ! ! ! ! !	 ! ! FLAME-1		!! !! ! !S3! !! ! !
!S12 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	: AREA-42	!! OPTIC# ! !S8!!	1 1
	(X) (X)	!s6 	!! ! !MOLD-STORAGE-1!! !S5!! OFFICE!
Name	Location	-	Rody/Frag/PT
WORKPLACES: ZONE-6-AREA-42-SQUARES AREA-42 FAB-SHOP MOLD-STORAGE-1 MOLD-STORAGE-2 OFFICE SHAPE-TRAVO SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6 S7	35,21 0,0 55,5 56,3 55,18 60,1 5,8 10,18 40,11 50,10 12,0 22,0 68,6 68,10 68,15 64,0 56,1 52,3 55,5	0,0 71,20 16,15 15,2 16,2 11,2 5,5 3,2 5,5 5,2 0,10 0,10 3,2 3,2 3,2 3,2 3,2 3,2	

S8 S9 S10 S11 S12 S13	50,8 3,2 20,0 4,4 10,0 4,4 40,17 16,2 0,7 3,10 3,18 4,2	
OBJECTS: PALLETS BOLSTERS	AREA-42 AREA-42	FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-L	AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	AREA-42 AREA-42	30,1 B 40,1
From	То	Steps
ZONE-6-AREA-42-SQUARES	AREA-42 FAB-SHOP MOLD-STORAGE-1 MOLD-STORAGE-2 OFFICE SHAPE-TRAVO SHEAR FLAKE-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6	0 0 0 0 0 0 0 0 0 0 0

ZONE-6-AREA-42-SQUARES	S7	0
ZONE-6-AREA-42-SQUARES	S8	0
ZONE-6-AREA-42-SQUARES	S9	0
ZONE-6-AREA-42-SQUARES	S10	0
ZONE-6-AREA-42-SQUARES	S11	0
ZONE-6-AREA-42-SQUARES	S12	0
ZONE-6-AREA-42-SQUARES	S13	0
AREA-42	FAB-SHOP	0
AREA-42	MOLD-STORAGE-1	0
AREA-42	MOLD-STORAGE-2	0
AREA-42	OFFICE	0
AREA-42	SHAPE-TRAVO	0
ARE4-42	SHEAR	0
AREA-42	FLAME-PLANER	0
AREA-42	OPTICAL	0
AREA-42	606-TRACK	0
AREA-42	607-TRACK	0
AREA-42	S1	0
AREA-42	S2	0
AREA-42	S3	0
AREA-42	S4	0
AREA-42	S5	0
AREA-42	S6	0
AREA-42	S7	0
AREA-42	S8	0
AREA-42	S9	0
AREA-42	S10	0
AREA-42	S11 S12	0
AREA-42		0
AREA-42	S13	0
FAB-SHOP	MOLD-STORAGE-1	0
FAB-SHOP FAR-SHOP	MOLD-STORAGE-2 OFFICE	0
FAB-SHOP	SHAPE-TRAVO	0
FAB-SHOP	SHEAR	0
FAB-SHOP	FLAME-PLANER	0
FAB-SHOP	OPTICAL	0
FAB-SHOP	606-TRACK	0
FAB-SHOP	607-TRACK	0
FAB-SHOP	S1	0
FAB-SHOP	S2	0
FAB-SHOP	S3	0
FAB-SHOP	S4	Ő
FAB-SHOP	S5	0
FAB-SHOP	S6	0
FAR-SHOP	S7	0
FAB-SHOP	S8	0

FAB-SHOP	S9	0
FAB-SHOP	\$10	0
FAB-SHOP	S11	0
FAB-SHOP	S12 S13	0
FAB-SHOP MOLD-STORAGE-1	MOLD-STORAGE-2	0
MOLD-STORAGE-1 MOLD-STORAGE-1	OFFICE	0
MOLD-STORAGE-1	SHAPE-TRAVO	0
MOLD-STORAGE-1	SHEAR	Ő
MOLD-STORAGE-1	FLAME-PLANER	0
MOLD-STORAGE-1	OPTICAL	0
MOLD-STORAGE-1	606-TRACK	0
MOLD-STORAGE-1	607-TRACK	0
MOLD-STORAGE-1	S1 S2	0
MOLD-STORAGE-1 MOLD-STORAGE-1	S3	0
MOLD-STORAGE-1 MOLD-STORAGE-1	S4	0
MOLD-STORAGE-1	S5	0
MOLD-STORAGE-1	S6	0
MOLD-STORAGE-1	S7	0
MOLD-STORAGE-1	S8	0
MOLD-STORAGE-1	S9 S10	0
MOLD-STORAGE-1 MOLD-STORAGE-1	S10 S11	0 0
MOLD-STORAGE-1 MOLD-STORAGE-1	S12	0
MOLD-STORAGE-1	S13	0
MOLD-STORAGE-2	OFFICE	0
MOLD-STORAGE-2	SHAPE-TRAVO	0
MOLD-STORAGE-2	SHEAR	0
MOLD-STORAGE-2	FLAME-PLANER OPTICAL	0
MOLD-STORAGE-2 MOLD-STORAGE-2	606-TRACK	0 0
MOLD-SIORAGE-2 MOLD-STORAGE-2	607-TRACK	0
MOLD-STORAGE-2	S1	0
MOLD-STORAGE-2	S2	0
MOLD-STORAGE-2	S3	0
MOLD-STORAGE-2	S4	0
MOLD-STORAGE-2 MOLD-STORAGE-2	S5 S6	0
MOLD-STORAGE-2	\$7	0
MOLD-STORAGE-2	S8	0
MOLD-STORAGE-2	S9	0
MOLD-STORAGE-2	S10	0
MOLD-STORAGE-2	S11	0
MOLD-STORAGE-2	S12	0
MOLD-STORAGE-2 OFFICE	S13 SHAPE-TRAVO	0
OLLICE	SHAFE-IKAVO	U

OFFICE SHAPE-TRAVO SHAPE-TRAVO SHAPE-TRAVO SHAPE-TRAVO SHAPE-TRAVO	SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2	
SHAPE-TRAVO SHAPE-TRAVO SHAPE-TRAVO	S7 S8 S9	0 0 0
SHAPE-TRAVO SHAPE-TRAVO	s10 S11	0
SHAPE-TRAVO SHAPE-TRAVO SHEAR SHEAR	S12 S13 FLAME-PLANER OPTICAL	0 0 0
SHEAR SHEAR SHEAR SHEAR	606-TRACK 607-TRACK S1 S2	0 0 0 0
SHEAR SHEAR SHEAR	S3 S4 S5	0 0 0
SHEAR SHEAR	S6 S7	0

SHEAR	S8	0
SHEAR	S9	0
SHEAR	S10	0
·-	S11	0
SHEAR		
SHEAR	S12	0
SHEAR	S13	0
FLAME-PLANER	OPTICAL	0
FLAME-PLANER	606-TRACK	0
FLAME-PLANER	607-TRACK	0
FLAME-PLANER	S1	0
FLAME-PLANER	S2	0
FLAME-PLANER	S3	0
FLAME-PLANER	S4	0
FLAME-PLANER	S5	0
FLAME-PLANER	S6	0
FLAME-PLANER	S7	0
FLAME-PLANER	S8	0
FLAME-PLANER	S9	0
FLAME-PLANER	S10	0
FLAME-PLANER	S11	0
FLAME-PLANER	S12	0
FLAME-PLANER	S13	0
OPTICAL	606-TRACK	0
OPTICAL	607-TRACK	0
OPTICAL	S1	0
OPTICAL	S2	0
OPTICAL	S3	0
OPTICAL	S4	
		0
OPTICAL	Ss	0
OPTICAL	S6	0
OPTICAL	S7	0
OPTICAL	S8	0
OPTICAL	S9	0
OPTICAL	S10	0
OPTICAL	S11	0
OPTICAL	S12	0
OPTICAL	S13	0
606-TRACK	607-TRACK	0
606-TRACK	S1	0
606-TRACK	S2	0
606-TRACK	S3	0
606-TRACK	S4	0
606-TRACK	S5	0
606-TRACK	S6	0
606-TRACK	S7	0
606-TRACK	S8	0
	50 S9	
606-TRACK	טי	0

606-TRACK 606-TRACK 606-TRACK 606-TRACK 607-TRACK 607-TRACK 607-TRACK 607-TRACK 607-TRACK 607-TRACK	S10 S11 S12 S13 S1 S2 S3 S4 S5 S6	0 0 0 0 0 0 0
607-TRACK 607-TRACK 607-TRACK 607-TRACK 607-TRACK 607-TRACK	S7 S8 S9 S10 S11 S12	0 0 0 0 0
607-TRACK S1 S1 S1 S1	S13 S2 S3 S4 S5	0 60 160 150 115 105 70
S1 S1 S1 S1 S1 S1	S7 S8 S9 S10 S11 S12 S13	80 155 195 255 365 485
\$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	S3 S4 S5 S6 S7 S8	100 220 250 260 300 340
S2 S2 S2 S2 S2 S3 S3 S3	S9 S10 S11 S12 S13 S4 S5 S6	100 140 195 275 390 335 415 270
S3 S3 S3 S3	S7 S8 S9 S10	230 210 215 240

S3	S11	110
S3	S12	175
S3	S13	295
S4	S5	35
S4	S6	60
S4	S7	95
S4	S8	120
S4	S9	195 235
S4	\$10	
S4	S11 S12	290 375
S4 S4	S12 S13	3/5 //05
S5	S6	495 20
S5	S7	55
S5	S8	90
S5	S9	165
S5	S10	205
S5	S11	260
S5	S12	335
S5	\$13	455
S6	S7	35
S6	S8	65
S6 S6	S9 S10	110 150
S6	S11	205
S6	S12	280
S6	S13	400
S7	\$8	80
S7	S9	120
S7	S10	160
S7	S11 S12	215
S7		290
S7 S8	S13 S9	410
S8	S10	80 120
S8	S11	175
S8	S12	250
S8	S13	370
S9	S10	40
S9	S11	95
\$9	S12	170
S9	S13	290
S10	S11 S12	135
S10 S10	S13	130 250
S10 S11	S13 S12	∠50 75
S11 S11	S12 S13	195
	= =	175

S12 S13

		ZONE-9	_	
! ! ! ! AREA-	74	! ! !		· · · · · · · · · · · · · · · · · · ·
!!!!	HEET-METAL-SHOP	- <u>.</u> i. 1-1,	!AREA-65	AREA-60
AREA-51		! ! !ROADWAY!	! !	: ! ! !
!SI !!	RKT! HOP!ELECT-SHOP AREA-70	!!	!	! AREA-87 ! !INSP! ! !BLDG ! GARAGE
Name	-	Location	_	Body/Frag/PT
WORKPLACES: ZONE-9 ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH SHOP. AREA-51		35,21 35,0 2,1 10,0 19,9 17,7 22,7 49,7 45,5 55,6 58,7 65,5 0,12 17,12 47,18 49,16 59,15 63,16 0,11	0,0 8,20 7,3 23,2 0,0 5,3 11,3 0,0 8,3 5,4 0,0 6,2 12,3 17,3 8,4 0,0 12,4 0,0	

AREA-60 AREA-65 AREA-70 AREA-74 AREA-84 AREA-87 AREA-91	58,14 13,0 46,14 10,0 10,6 25,0 0,10 35,10 0,0 34,5 55,5 16,8 45,4 10,0	
OBJECTS: PALLETS BOLSTERS	ZONE-9 ZONE-9	FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-E LG-STRAD-S	ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROADWAY ROADWAY	40,3 B 40,5
From	To	Steps
ZONE-9	ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH	0 0 0 0 0 0 0 0 0 0

ZONE-9	SHOP.	0
ZONE-9	AREA-51	0
ZONE-9	AREA-60	0
ZONE-9	AREA-65	0
ZONE-9	AREA-70	0
ZONE-9	AREA-74	0
ZONE-9	AREA-84	0
ZONE-9	AREA-87	0
ZONE-9	AREA-91	0
ROADWAY	POLICE	0
ROADWAY	WAREHOUSE	0
ROADWAY	BRKT	0
ROADWAY	SHOP	0
ROADWAY	ELECT-SHOP	0
ROADWAY	PICKLER	0
ROADWAY	BLDG	0
ROADWAY	INSP	0
ROADWAY	BLDG.	0
ROADWAY	GARAGE	0
ROADWAY	COPPER-SHOP	0
ROADWAY	SHEET-METAL-SHOP	0
ROADWAY	RIGGING	0
ROADWAY	DEPT	0
ROADWAY	OUTSIDE-MACH	0
ROADWAY	SHOP.	0
ROADWAY	AREA-51	0
ROADWAY	AREA-60	0
ROADWAY	AREA-65	0
ROADWAY	AREA-70	0
ROADWAY	AREA-74	0
ROADWAY	AREA-84 AREA-87	0
ROADWAY	AREA-91	0
ROADWAY POLICE	WAREHOUSE	0
POLICE	BRKT	0
POLICE	SHOP	0
POLICE	ELECT-SHOP	0
POLICE	PICKLER	0
POLICE	BLDG	0
POLICE	INSP	0
POLICE	BLDG.	0
POLICE	GARAGE	0
POLICE	COPPER-SHOP	0
POLICE	SHEET-METAL-SHOP	0
POLICE	RIGGING	0
POLICE	DEPT	0
POLICE	OUTSIDE-MACH	0
		-

POLICE	SHOP.	0
POLICE	AREA-51	0
POLICE	AREA-60	0
POLICE	AREA-65	0
POLICE	AREA-70	0
POLICE	AREA-74	0
POLICE	AREA-84	0
POLICE	AREA-87	0
POLICE	AREA-91	0
WAREHOUSE	BRKT	0
WAREHOUSE	SHOP	0
WAREHOUSE	ELECT-SHOP	0
WAREHOUSE	PICKLER	0
WAREHOUSE	BLDG	0
WAREHOUSE	INSP	0
WAREHOUSE	BLDG.	0
WAREHOUSE	GARAGE	0
WAREHOUSE	COPPER-SHOP	0
WAREHOUSE	SHEET-METAL-SHOP	0
WAREHOUSE	RIGGING	0
WAREHOUSE	DEPT	0
WAREHOUSE	OUTSIDE-MACH	0
WAREHOUSE	SHOP.	0
WAREHOUSE	AREA-51	0
WAREHOUSE	AREA-60	0
WAREHOUSE	AREA-65	0
WAREHOUSE	AREA-70	0
WAREHOUSE	AREA-74	0
WAREHOUSE	AREA-84	0
WAREHOUSE	AREA-87	0
WAREHOUSE	AREA-91	0
BRKT	SHOP	0
BRKT	ELECT-SHOP	0
BRKT	PICKLER	0
BRKT	BLDG	0
BRKT	INSP	0
BRKT	BLDG.	0
BRKT	GARAGE	0
BRKT	COPPER-SHOP	0
BRKT	SHEET-METAL-SHOP	0
BRKT	RIGGING	0
BRKT	DEPT	0
BRKT	OUTSIDE-MACH	0
BRKT	SHOP.	0
BRKT	AREA-51	0
BRKT	AREA-60	0
BRKT	AREA-65	0
DITTE	111(1111 0 0	U

BRKT	AREA-70	0
BRKT	AREA-74	0
BRKT	AREA-84	0
BRKT	AREA-87	0
BRKT	AREA-91	0
SHOP	ELECT-SHOP	0
SHOP	PICKLER	0
SHOP	BLDG	0
SHOP	INSP	0
SHOP	BLDG.	0
SHOP	GARAGE	0
SHOP	COPPER-SHOP	0
SHOP	SHEET-METAL-SHOP	0
SHOP	RIGGING	0
SHOP	DEPT	0
SHOP	OUTSIDE-MACH	0
SHOP	SHOP.	0
SHOP	AREA-51	0
SHOP	AREA-60	0
SHOP	AREA-65	0
SHOP	AREA-70	0
SHOP	AREA-74	0
SHOP	AREA-84	0
SHOP	AREA-87	0
SHOP	AREA-91	0
ELECT-SHOP	PICKLER	0
ELECT-SHOP	BLDG	0
ELECT-SHOP	INSP	0
ELECT-SHOP	BLDG.	0
ELECT-SHOP	GARAGE	0
ELECT-SHOP	COPPER-SHOP	0
ELECT-SHOP	SHEET-METAL-SHOP	0
ELECT-SHOP	RIGGING	0
ELECT-SHOP	DEPT	0
ELECT-SHOP	OUTSIDE-MACH	0
ELECT-SHOP	SHOP.	0
ELECT-SHOP	AREA-31	0
ELECT-SHOP	AREA-60	0
ELECT-SHOP	AREA-65	0
ELECT-SHOP ELECT-SHOP	AREA-70	0
	AREA-74	0
ELECT-SHOP ELECT-SHOP	AREA-84	0
ELECT-SHOP	AREA-87 AREA-91	0
PICKLER	BLDG	0
PICKLER	INSP	0
PICKLER	BLDG.	0
LICHIDIN	. פענוע	0

PICKLER	GARAGE	0
PICKLER	COPPER-SHOP	0
PICKLER	SHEET-METAL-SHOP	0
PICKLER	RIGGING	0
PICKLER	DEPT	0
PICKLER	OUTSILIE-HACH	0
PICKLER	SHOP.	0
PICKLER	AREA-51	0
PICKLER	AREA-60	0
PICKLER	AREA-65	0
PICKLER	AREA-70	0
	111111111111111111111111111111111111111	
PICKLER	AREA-74	0
PICKLER	AREA-84	0
PICKLER	AREA-87	0
PICKLER	AREA-91	0
BLDG	INSP	0
BLDG	BLDG.	0
BLDG	GARAGE	0
BLDG	COPPER-SHOP	0
BLDG	SHEET-METAL-SHOP	0
BLDG	RIGGING	0
BLDG	DEPT	0
BLDG	OUTSIDE-MACH	0
BLDG	SHOP.	0
BLDG	AREA-51	0
BLDG	AREA-60	0
BLDG	AREA-65	0
BLDG	AREA-70	0
BLDG	AREA-74	0
BLDG	AREA-84	0
_		
BLDG	AREA-87	0
BLDG	AREA-91	0
INSP	BLDG.	0
	GARAGE	0
INSP		
INSP	COPPER-SHOP	0
INSP	SHEET-METAL-SHOP	0
INSP	RIGGING	0
INSP	DEPT	0
INSP	OUTSIDE-MACH	0
INSP	SHOP.	0
INSP	AREA-51	0
		0
INSP	AREA-60	
INSP	AREA-65	0
INSP	AREA-70	0
INSP	AREA-74	0
INSP	AREA-84	0
INSP	AREA-87	0

INSP	AREA-91	0
BLDG.	GARAGE	0
	COPPER-SHOP	Ö
BLDG.		
BLDG.	SHEET-METAL-SHOP	0
BLDG.	RIGGING	0
BLDG.	DEPT	0
BLDG.	OUTSIDE-MACH	0
		0
BLDG.	SHOP.	-
BLDG.	AREA-51	0
BLDG.	AREA-60	0
BLDG.	AREA-65	0
BLDG.	AREA-70	0
	AREA-74	0
BLDG.		-
BLDG.	AREA-84	0
BLDG.	AREA-87	0
BLDG,	AREA-91	0
GARAGE	COPPER-SHOP	0
GARAGE	SHEET-METAL-SHOP	0
		0
GARAGE	RIGGING	•
GARAGE	DEPT	0
GARAGE	OUTSIDE-MACH	0
GARAGE	SHOP.	0
GARAGE	AREA-51	0
GARAGE	AREA-60	0
	AREA-65	0
GARAGE		
GARAGE	AREA-70	0
GARAGE	AREA-74	0
GARAGE	AREA-84	0
GARAGE	AREA-87	0
GARAGE	AREA-91	0
COPPER-SHOP	SHEET-METAL-SHOP	0
		0
COPPER-SHOP	RIGGING	
COPPER-SHOP	DEPT	0
COPPER-SHOP	OUTSIDE-MACH	0
COPPER-SHOP	SHOP.	0
COPPER-SHOP	AREA-51	0
COPPER-SHOP	AREA-60	0
	AREA-65	0
COPPER-SHOP		0
COPPER-SHOP	AREA-70	
COPPER-SHOP	AREA-74	0
COPPER-SHOP	AREA-84	0
COPPER-SHOP	AREA-87	0
COPPER-SHOP	AREA-91	в
SHEET-METAL-SHOP	RIGGING	U
	DEPT	0
SHEET-METAL-SHOP		0
SHEET-METAL-SHOP	OUTSIDE-MACH	-
SHEET-METAL-SHOP	SHOP.	0

SHEET-METAL-SHOP	AREA-51	0
SHEET-METAL-SHOP	AREA-60	0
SHEET-METAL-SHOP	AREA-65	0
SHEET-METAL-SHOP	AREA-70	0
SHEET-METAL-SHOP	AREA-74	0
SHEET-METAL-SHOP	AREA-84	0
SHEET-METAL-SHOP	AREA-87	0
SHEET-METAL-SHOP	AREA-91	0
RIGGING	DEPT	0
RIGGING	OUTSIDE-MACH	0
RIGGING	SHOP.	0
RIGGING	AREA-51	0
RIGGING	AREA-60	0
RIGGING	AREA-63	
RIGGING	AREA-70	0
RIGGING	AREA-70 AREA-74	0
RIGGING		
RIGGING	AREA-84	0
RIGGING	AREA-87	0
DEPT	AREA-91	0
DEPT	OUTSIDE-MACH	0
DEPT	SHOP.	0
DEPT	AREA-51	0
DEPT	AREA-60	0
DEPT	AREA-65	0
	AREA-70	0
DEPT	AREA-74	0
DEPT	AREA-84	0
DEPT	AREA-87	0
DEPT	AREA-91	0
OUTSIDE-MACH	SHOP.	0
OUTSIDE-MACH	AREA-51	0
OUTSIDE-HACH	AREA-60	0
OUTSIDE-MACH	AREA-65	0
OUTSIDE-MACH	AREA-70	0
OUTSIDE-HACH	AREA-74	0
OUTSIDE-MACH	AREA-84	0
OUTSIDE-MACH	AREA-87	0
OUTSIDE-MACH	AREA-91	0
SHOP.	AREA-51	0
SHOP.	AREA-60	0
SHOP.	AREA-65	0
SHOP.	AREA-70	0
SHOP.	AREA-74	0
SHOP.	AREA-84	0
SHOP.	AREA-87	0
SHOP.	AREA-91	0
AREA-51	AREA-60	385

AREA-31	AREA-65	350
AREA-51	AREA-70	110
AREA-51	AREA-74	165
AREA-51	AREA-84	165
AREA-51	AREA-87	350
AREA-51	AREA-91	285
AREA-60	AREA-65	155
ARE4-60	AREA-70	305
AREA-60	ARE4-74	210
AREA-60	AREA-84	343
AREA-60	ARE6-87	265
AREA-60	AREA-91	235
AREA-65	AREA-70	290
AREA-65	AREA-74	190
AREA-65	AREA-84	320
AREA-65	AREA-87	240
AREA-65	AREA-91	210
AREA-70	AREA-74	100
AREA-70	AREA-84	45
AREA-70	AREA-87	140
AREA-70	AREA-91	130
AREA-74	AREA-84	135
AREA-74	AREA-87	190
AREA-74	AREA-91	180
AREA-84	AREA-87	185
AREA-84	AREA-91	155
AREA-87	AREA-91	80

	YARD-ZONES	 ! !	
! ! ! ! ZONE-1 ! !	WATER	! ! ! ! ! ! ! !	
! ROAD-1 ! ! ! ZONE-4 ! ZONE-2 ! ! !	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!	! ZONE-10 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
! (X) (X)	ROAD-2		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
! ! ZONE-3 !	!!! ZONE-6!!	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
Name	Location		Rody/Frag/PT
WORKPLACES: YARD-ZONES ROAD-1 ROAD-2 WATER ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-7 ZONE-8 ZONE-9 ZONE-10	0,13 0,5 35,18 0,15 0,7 0,0	0,0 10,2 59,2 0,0 10,5 10,6 20,5 15,8 15,8 20,5 10,14 10,5 10,10	
OBJECTS: PALLETS BOLSTERS UNITS	YARD-ZONES YARD-ZONES YARD-ZONES		FRAG FRAG FRAG

EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-L	YARD-ZONES	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS:	D07D 0	5,6
FORK-DRIVER	ROAD-2	
STRADDLE-DRIVER	ROAD-2	10,6 B
From	То	Steps
YARD-ZONES	ROAD-1	0
YARD-ZONES	ROAD-2	0
YARD-ZONES	WATER	0
YARD-ZONES	ZONE-1	0
YARD-ZONES	ZONE-2	0
YARD-ZONES	ZONE-3	0
YARD-ZONES	ZONE-4	0
YARD-ZONES	ZONE-5	0
YARD-ZONES	ZONE-6	0
YARD-ZONES	ZONE-7	0
YARD-ZONES	ZONE-8	0
YARD-ZONES	ZONE-9	0
YARD-ZONES	ZONE-10	0
ROAD-1	ROAD-2	0
ROAD-1	WATER	0
ROAD-I	ZONE-1	0
ROAD-1	ZONE-2	0
ROAD-1	ZONE-3	0
ROAD-1	ZONE – 4	0
ROAD-1	ZONE-5	0
ROAD-1	ZONE-6	0
ROAD-1	ZONE-7	0
ROAD-1	ZONE - 8	0
ROAD-1	ZONE-9	0
ROAD-1	ZONE-10	0
ROAD-2	WATER	0
ROAD-2	ZONE-1	0

ROAD-2	ZONE-2	0
ROAD-2	ZONE-3	0
ROAD-2	ZONE-4	0
ROAD-2	ZONE-5	0
ROAD-2	ZONE-6	0
ROAD-2	ZONE-7	0
ROAD-2	ZONE-8	0
ROAD-2 ROAD-2	ZONE-9	0
ROAD 2 ROAD-2	ZONE-10	0
WATER	ZONE-1	0
WATER	ZONE - 2	0
WATER	ZONE - 3	0
WATER	ZONE-4	0
WATER	ZONE - 5	0
WATER	ZONE-6	0
WATER	ZONE-7	0
WATER	ZONE-8	0
WATER WATER	ZONE 6 ZONE – 9	0
WATER	ZONE-10	0
ZONE-1	ZONE 10 ZONE-2	640
	ZONE - 3	760
ZONE -1	ZONE - 3	
ZONE-1	ZONE - 5	1190 1250
ZONE - 1	ZONE 5 ZONE-6	1180
ZONE - 1	ZONE-0 ZONE-7	1640
ZONE -1	ZONE 7 ZONE - 8	1560
ZONE-1	ZONE-8 ZONE-9	
ZONE-1	ZONE-9 ZONE-10	1880 2240
ZONE-1	ZONE-10 ZONE-3	500
ZONE-2	ZONE – 3 ZONE – 4	580
ZONE-2	ZONE-4 ZONE-5	930
ZONE - 2	ZONE-5 ZONE-6	870
ZONE-2	ZONE – 6 ZONE – 7	1340
ZONE - 2	ZONE – 7 ZONE – 8	1150
ZONE-2	ZONE - 8 ZONE - 9	2540
ZONE-2		1910
ZONE-2	ZONE -10	650
ZONE - 3	ZONE - 4	940
ZONE-3	ZONE - 5	
ZONE-3	ZONE-6 ZONE-7	810 1290
ZONE-3		1180
ZONE-3	ZONE - 8	1570
ZONE-3	ZONE-9	1960
ZONE-3	ZONE - 10	600
ZONE-4	ZONE-5	610
ZONE-4	ZONE 7	1250
ZONE-4	ZONE-7	
ZONE-4	ZONE-8	1140

ZONE-6-AREA-42-SQUARES					
! !S13! SHEAR			!-MOLD-STORAGE-2 !		
!	!	S11 	 -		
1 1			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! !	! !	!!		
!!	FLAME-	PLANER	! ! ! -! FAB-SHOP!		
!S12 ! ! ! ! ! !	· 	OPTI			
! SHAPE-TRAVO	AREA-42	 !S8!	-!!		
i i 'i i			!!		
! ! !			! !S1! !S7!!		
606-TRACK 607-TRACK			!		
!!! ! !!! !!!		! 5	66! !MOLD-STORAGE-1!		
! !S10! ! S9! ! !!! !!!	(X) (X)		!S5!! OFFICE !		
	(X) (X)		S4		
Name	Location		Body/Frag/PT		
WORKPLACES: ZONE-6-AREA-42-SQUARES AREA-42 FAB-SHOP MOLD-STORAGE-1 MOLD-STORAGE-2 OFFICE SHAPE-TRAVO SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6 S7	0,0 55,5	0,0 71,20 16,15 15,2 16,2 11,2 5,5 3,2 5,5 5,5 5,2 0,10 0,10 3,2 3,2 3,2 3,2 3,2 3,2 3,2			

S8 S9 S10 S11 S12 S13	50,8 20,0 10,0 40,17 0,7 3,18	3,2 4,4 4,4 16,2 3,10 4,2	
OBJECTS: PALLETS BOLSTERS	AREA-42 AREA-42		FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-E LG-STRAD-L	AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42		03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	AREA-42 AREA-42		30,1 B 40,1
From 	To		Sters
ZONE-6-AREA-42-SQUARES	AREA-42 FAB-SHOP MOLD-STORA MOLD-STORA OFFICE SHAPE-TRA SHEAR FLAME-PLAI OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6	AGE-2 VO NER	0 0 0 0 0 0 0 0 0 0

ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES AREA-42 AREA-41 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-41 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-41 AREA-42 AREA-41 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-41 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-41 AREA-42 AREA-43 AREA-43 AREA-44 AREA-43 AREA-44 AREA-44 AREA-43 AREA-44 AREA-44 AREA-43 AREA-44 AREA-44 AREA-43 AREA-44 AREA-43 AREA-44 AREA-44 AREA-43 AREA-44 AREA-43 AREA-44 AREA-44 AREA-43 AREA-44 AREA-44 AREA-45 AREA-45 AREA-46 AREA-47 AREA-48 AREA-48 AREA-48 AREA-48 AREA-48 AREA-48 AREA-48 AREA-49 AREA-49 AREA-49 AREA-49 AREA-49 AREA-49 AREA-49 AREA-49 AREA-49 AREA-40	S7 S8 S9 S10 S11 S12 S13 FAB-SHOP MOLD-STORAGE-1 MOLD-STORAGE-2 OFFICE SHAPE-TRAVO SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 MOLD-STORAGE-1 MOLD-STORAGE-1 MOLD-STORAGE-2 OFFICE SHAPE-TRAVO SHEAR FLAME-PLANER OPTICAL 606-TRACK 607-TRACK	
FAB-SHOP FAB-SHOP	FLAME-PLANER OPTICAL	0
	607-TRACK S1 S2	0
FAB-SHOP FAB-SHOP F A B - S H O P FAB-SHOP	S3 S4 S5 S6 S7	0 0 0 0
FAB-SHOP FAB-SHOP	S8	0

FAB-SHOP	S9	0
FAB-SHOP	S10	0
FAB-SHOP	S11	0
FAB-SHOP	S12	0
FAB-SHOP	S13	0
MOLD-STORAGE-1	MOLD-STORAGE-2	0
MOLD-STORAGE-1	OFFICE	Ő
MOLD-STORAGE-1	SHAPE-TRAVO	QQ
MOLD-STORAGE-1	SHEAR	0 Q
MOLD-STORAGE-1	FLAME-PLANER	0
MOLD-STORAGE-1	OPTICAL	
MOLD-STORAGE-1	606-TRACK	0
MOLD-STORAGE-1 MOLD-STORAGE-1		0
MOLD-STORAGE-1 MOLD-STORAGE-1	607-TRACK	0
	S1	0
MOLD-STORAGE-1	S2	0
MOLD-STORAGE-1	S3	0
MOLD-STORAGE-1	S4	0
MOLD-STORAGE-1	S5	0
MOLD-STORAGE-1	\$6	0
MOLD-STORAGE-1	S7	0
MOLD-STORAGE-1	S8	0
MOLD-STORAGE-1	\$9	0
MOLD-STORAGE-1	\$10	0
MOLD-STOEAGE-1	S11	0
MOLD-STORAGE-1	S12	0
MOLD-STORAGE-1	S13	0
MOLD-STORAGE-2	OFFICE	0
MOLD-STORAGE-2	SHAPE-TRAVO	0
MOLD-STORAGE-2	SHEAR	0
MOLD-STORAGE-2	FLAME-PLANER	0
MOLD-STORAGE-2	OPTICAL	0
MOLD-STORAGE-2	606-TRACK	0
MOLD-STORAGE-2	607-TRACK	0
MOLD-STORAGE-2	S1 S2	0
MOLD-STORAGE-2		0
MOLD-STORAGE-2	S3	0
MOLD-STORAGE-2	S4	0
MOLD-STORAGE-2	S5	0
MOLD-STORAGE-2	S6	0
MOLD-STORAGE-2	S7	0
MOLD-STORAGE-2	S8	0
MOLD-STORAGE-2	S9	0
MOLD-STORAGE-2	S10	0
MOLD-STORAGE-2	S11	0
MOLD-STORAGE-2	S12	0
MOLD-STORAGE-2	S13	0
OFFICE	SHAPE-TRAVO	0

OFFICE SHEAR 0 OFFICE FLAME-PLANER 0 OFFICE OPTICAL 0 OFFICE 606-TRACK 0 OFFICE 607-TRACK 0 OFFICE 51 0 OFFICE 52 0 OFFICE 52 0 OFFICE 52 0 OFFICE 53 0 OFFICE 54 0 OFFICE 55 0 OFFICE 56 0 OFFICE 57 0 OFFICE 58 0			
OFFICE OPTICAL 0 OFFICE 606-TRACK 0 OFFICE S1 0 OFFICE S2 0 OFFICE S2 0 OFFICE S3 0 OFFICE S5 0 OFFICE S5 0 OFFICE S6 0 OFFICE S7 0 OFFICE S8 0 OFFICE S9 0 OFFICE S10 0 OFFICE S10 0 OFFICE S11 0 OFFICE S12 0 OFFICE S11 0 OFFICE S12 0 OFFICE S1 0 SHAPE-TRAVO SHEAR <td>OFFICE</td> <td>SHEAR</td> <td>0</td>	OFFICE	SHEAR	0
OFFICE OPTICAL 0 OFFICE 606-TRACK 0 OFFICE S1 0 OFFICE S2 0 OFFICE S2 0 OFFICE S3 0 OFFICE S5 0 OFFICE S5 0 OFFICE S6 0 OFFICE S7 0 OFFICE S8 0 OFFICE S9 0 OFFICE S10 0 OFFICE S10 0 OFFICE S11 0 OFFICE S12 0 OFFICE S11 0 OFFICE S12 0 OFFICE S1 0 SHAPE-TRAVO SHEAR <td>OFFICE</td> <td>FT.AME-PT.ANER</td> <td>0</td>	OFFICE	FT.AME-PT.ANER	0
OFFICE 606-TRACK 0 OFFICE 607-TRACK 0 OFFICE S1 0 OFFICE S2 0 OFFICE S3 0 OFFICE S4 0 OFFICE S5 0 OFFICE S6 0 OFFICE S8 0 OFFICE S8 0 OFFICE S9 0 OFFICE S10 0 OFFICE S10 0 OFFICE S10 0 OFFICE S1 0 OFFICE S10 0 OFFICE S1 0 S1APE-TRAVO S1 0 SHAPE-TRAVO S1 0 SHAPE-TRAVO <t< td=""><td></td><td></td><td></td></t<>			
OFFICE 607-TRACK 0 OFFICE S1 0 OFFICE S2 0 OFFICE S3 0 OFFICE S4 0 OFFICE S5 0 OFFICE S6 0 OFFICE S7 0 OFFICE S8 0 OFFICE S9 0 OFFICE S10 0 OFFICE S1 0 OFFICE S12 0 SHAPE-TRAVO SHARR 0 SHAPE-TRAVO S1 0 SHAPE-TRAVO			
OFFICE \$1 0 OFFICE \$2 0 OFFICE \$3 0 OFFICE \$4 0 OFFICE \$5 0 OFFICE \$6 0 OFFICE \$7 0 OFFICE \$8 0 OFFICE \$9 0 OFFICE \$10 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$13 0 OFFICE \$13			
OFFICE \$2 0 OFFICE \$3 0 OFFICE \$4 0 OFFICE \$5 0 OFFICE \$6 0 OFFICE \$7 0 OFFICE \$8 0 OFFICE \$9 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$12 0 OFFICE \$13 3 SHAPE-TRAVO \$HEAR 0 SHAPE-TRAVO \$HEAR 0 SHAPE-TRAVO \$0 \$1 SHAPE-TRAVO \$1 0 SHAPE-TRAVO \$2 0 SHAPE-TRAVO \$3 0 SHAPE-TRAVO \$4 0 SHAPE-TRAVO \$5 0 SHAPE-TRAVO \$6 0 SHAPE-TRAVO \$6 0	OFFICE	607-TRACK	0
OFFICE \$2 0 OFFICE \$3 0 OFFICE \$4 0 OFFICE \$5 0 OFFICE \$6 0 OFFICE \$7 0 OFFICE \$8 0 OFFICE \$9 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$12 0 OFFICE \$13 3 SHAPE-TRAVO \$HEAR 0 SHAPE-TRAVO \$HEAR 0 SHAPE-TRAVO \$0 \$1 SHAPE-TRAVO \$1 0 SHAPE-TRAVO \$2 0 SHAPE-TRAVO \$3 0 SHAPE-TRAVO \$4 0 SHAPE-TRAVO \$5 0 SHAPE-TRAVO \$6 0 SHAPE-TRAVO \$6 0	OFFICE	S1	0
OFFICE		$ ilde{\mathbb{S}}ar{2}$	
OFFICE \$5 0 OFFICE \$6 0 OFFICE \$7 0 OFFICE \$8 0 OFFICE \$9 0 OFFICE \$10 0 OFFICE \$11 0 OFFICE \$12 0 OFFICE \$13 0 SHAPE-TRAVO \$HEAR 0 SHAPE-TRAVO \$FLAME-PLANER 0 SHAPE-TRAVO \$0-TTCAL 0 SHAPE-TRAVO 606-TRACK 0 SHAPE-TRAVO \$1 0 SHAPE-TRAVO \$1 0 SHAPE-TRAVO \$2 0 SHAPE-TRAVO \$3 0 SHAPE-TRAVO \$3 0 SHAPE-TRAVO \$3 0 SHAPE-TRAVO \$5 0 SHAPE-TRAVO \$6 0 SHAPE-TRAVO \$6 0 SHAPE-TRAVO \$9 0 SHAPE-TRAVO \$9			0
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SHEAR	S8	0
SHEAR	\$9	0
SHEAR	S10	0
SHEAR	S11	0
SHEAR	S12	0
SHEAR	S13	0
FLAME-PLANER	OPTICAL	0
FLAME-PLANER	606-TRACK	0
FLAME-PLANER	607-TRACK	0
FLAME-PLANER	S1	0
FLAME-PLANER	S2	0
FLAME-PLANER	S3	0
FLAME-PLANER	S4	0
FLAME-PLANER	S5	0
FLAME-PLANER	S6	0
	\$7	0
FLAME-PLANER FLAME-PLANER	S8	0
	S9	0
FLAME-PLANER	S10o	0
FLAME-PLANER		0
FLAME-PLANER	S11 S12	0
FLAME-PLANER	S13	0
FLAME-PLANER		0
OPTICAL	606-TRACK	
OPTICAL	607-TRACK	0
OPTICAL	S1	0
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606-TRACK	607-TRACK	0
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606-TRACK	S3	0
606-TRACK	S4	0
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S3	S11	110
S3	S12	175
S3	S12 S13	295
S4	S5	35
S4	S6	60
S4	S7	95
S4	S8	120
S4	S9	195
S4	S10	235
S4	S11	290
S4	S12	375
S4	S13	495
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S5	S7	55
S5		90
מר	S8	
S5	S9	165
S5	\$10	20s
S5	S11	260
S5	S12	335
S5	S13	455
S6	S7	35
S6	S8	65
S6	S9	110
S6	S10	150
S6	S11	205
S6	S12	280
S6	S13	400
S7	S8	80
S7	\$9	120
S7	S10	
S7	S11	160 215
S7	S12	290
S7	S13	410
S8	\$9	80
S8	S10	120
S8	S11	175
S8	S12	250
S8	S13	370
S9	\$10	40
S9	S11 S12	95
S9		170
S9	S13	290
S10	S11	135
S10	S12	130
S10	S13	250
S11	S12	75
S11	S13	195

\$12 S13 **120**

		ZON	1E-9				
! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	REA-74	! ! :HOP!!	! ! !	! ! ! ! !	!RIGGING!	!	! OUTSIDE-MACH ! SHOP. !
AREA-51	!BRKT! !SHOP!ELECT-SH	1 ! 10P!	! !RBADW ! ! ! !	! !	!	! ! ! ! INSI !BLDO	
!AR !AR !!	EA-84 WAREHOUSE	! !! !!!	! ! (X !	! ! !	!AREA-91-	-	Body/Frag/PT
WORKPLACES: ZONE-9 ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH SHOP. AREA-51		35, 35, 2,1 10, 19, 17, 22, 49, 55, 58, 65, 17, 47, 49,	.21 ,0 ,0 ,0 ,7 ,7 ,7 ,7 ,5 ,6 ,7 ,5 ,12 ,15 ,16 ,15		0,0 8,20 7,3 23,2 0,0 5,3 11,3 0,0 8,3 3,4 0,0 6,2 12,3 17,3 8,4 0,0 12,4 0,0		BOUY/FIAG/FI

AREA-60 AREA-65 ARE4-70 AREA-74 AREA-84 AREA-87 AREA-91	58,14 13,0 46,14 10,0 10,6 25,0 0,10 35,10 0,0 34,5 55,5 16,8 45,4 10,0	
OBJECTS: PALLETS BOLSTERS	ZONE-9 ZONE-9	FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-E LG-STRAD-L	ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY ROADWAY	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROADWAY ROADWAY	40,3 B 40,5
From	То	Steps
ZONE - 9	ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH	0 0 0 0 0 0 0 0 0 0

ZONE-9		SHOP.	0
ZONE-9	ZONE-9		0
ZONE-9			0
AREA-70 AREA-70 ZONE-9 AREA-74 ZONE-9 AREA-84 ZONE-9 AREA-84 ZONE-9 AREA-87 ZONE-9 AREA-91 ZONE-9 AREA-91 ZONE-9 AREA-91 ZONE-9 AREA-91 ZONE-9 AREA-91 ZONE-9 ZONE-9 AREA-91 ZONE-9			0
AREA-74 ZONE-9 ZONE-9 AREA-84 ZONE-9 AREA-87 ZONE-9 AREA-91 ZONE-9 ROADWAY ROA			0
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POLICE	SHOP.	0
POLICE	AREA-51	0
POLICE	AREA-60	0
POLICE	AREA-65	0
POLICE	AREA-70	0
POLICE	AREA-74	0
POLICE	AREA-84	0
POLICE	AREA-87	0
POLICE	AREA-91	0
WAREHOUSE	BRKT	0
WAREHOUSE	SHOP	0
WAREHOUSE	ELECT-SHOP	0
WAREHOUSE	PICKLER	0
WAREHOUSE	BLDG	0
WAREHOUSE	INSP	0
WAREHOUSE	BLDG.	0
WAREHOUSE	GARAGE	0
WAREHOUSE	COPPER-SHOP	0
WAREHOUSE	SHEET-METAL-SHOP	0
WAREHOUSE	RIGGING	0
WAREHOUSE	DEPT	0
WAREHOUSE	OUTSIDE-MACH	0
WAREHOUSE	SHOP.	0
WAREHOUSE	AREA-51	0
WAREHOUSE	AREA-60	0
WAREHOUSE	AREA-65	0
WAREHOUSE	AREA-70	0
WAREHOUSE	AREA-74	0
WAREHOUSE	AREA-84	0
WAREHOUSE	AREA-87	0
WAREHOUSE	AREA-91	0
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BRKT.	ELECT-SHOP PICKLER	0
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BRKT	AREA-70	0
BRKT	AREA-74	0
BRKT	AREA-84	0
BRKT	AREA-87	0
BRKT	AREA-91	0
SHOP	ELECT-SHOP	0
SHOP	PICKLER	0
SHOP	BLDG	0
SHOP	INSP	0
SHOP	BLDG.	0
SHOP	GARAGE	0
SHOP	COPPER-SHOP	0
SHOP	SHEET-METAL-SHOP	0
SHOP	RIGGING	0
SHOP	DEPT	0
SHOP	OUTSIDE-MACH	0
SHOP	SHOP.	0
SHOP	AREA-51	0
SHOP	AREA-60	0
SHOP	AREA-65	0
SHOP	AREA-70	0
SHOP	AREA-74	0
SHOP	AREA-84	0
SHOP	AREA-87	0
SHOP	AREA-91	0
ELECT-SHOP	PICKLER	0
ELECT-SHOP	BLDG	0
ELECT-SHOP	INSP	0
ELECT-SHOP	BLDG.	0
ELECT-SHOP	GARAGE	0
ELECT-SHOP	COPPER-SHOP	0
ELECT-SHOP	SHEET-METAL-SHOP	0
ELECT-SHOP	RIGGING	0
ELECT-SHOP	DEP'T	0
ELECT-SHOP	OUTSIDE-MACH	0
ELECT-SHOP	SHOP.	0
ELECT-SHOP	AREA-51	0
ELECT-SHOP	AREA-60	0
ELECT-SHOP	AREA-65	0
ELECT-SHOP	AREA-70	0
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PICKLER	AREA-84	0
PICKLER	AREA-87	0
PICKLER	AREA-91	0
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BLDG	GARAGE	0
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BLDG	AREA-84	0
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INSP	AREA-60	0
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INSP	AREA-91	0
BLDG.	GARAGE	0
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BLDG.	RIGGING	0
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BLDG.	AREA-51	0
BLDG.	AREA-60	0
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BLDG.	AREA-74	Ŏ
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BLDG.	AREA-87	0
BLDG.,	AREA-91	0
GARAGE	COPPER-SHOP	0
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GARAGE	SHEET-HETAL-SHOP	0
GARAGE	RIGGING	0
GARAGE	DEPT	0
GARAGE	OUTSIDE-MACH	0
GARAGE	SHOP.	Ŏ
GARAGE	AREA-51	0
GARAGE	AREA-60	0
GARAGE	AREA-65	0
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GARAGE	AREA-74	-
GARAGE	AREA-84	0
GARAGE	AREA-87	0
GARAGE	AREA-91	0
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COPPER-SHOP	RIGGING	0
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COPPER-SHOP	AREA-74	0
COPPER-SHOP	AREA-84	Ō
COPPER-SHOP	AREA-87	0
COPPER-SHOP	AREA-91	0
SHEET-METAL-SHOP	RIGGING	0
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SHEET-METAL-SHOP	AREA-51	0
SHEET-METAL-SHOP	AREA-60	ŏ
SHEET-METAL-SHOP	AREA-65	ŏ
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	AREA-84	
SHEET-METAL-SHOP		0
SHEET-METAL-SHOP	AREA-87	0
SHEET-METAL-SHOP	AREA-91	0
RIGGING	DEPT	0
RIGGING	OUTSIDE-MACH	0
RIGGING	SHOP .	0
RIGGING	AREA-51	0
RIGGING	AREA-60	0
RIGGING	AREA-65	0
RIGGING	AREA-70	0
RIGGING	AREA-74	0
RIGGING	AREA-84	0
RIGGING	AREA-87	0
RIGGING	AREA-91	0
DEPT	OUTSIDE-MACH	0
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OUTSIDE-MACH	SHOP .	.0
OUTSIDE-MACH	AREA-51	0
OUTSIDE-MACH	AREA-60	0
OUTSIDE-MACH	AREA-65	0
OUTSIDE-MACH	AREA-70	0
OUTSIDE-MACH	AREA-74	0
OUTSIDE-MACH	AREA-84	0
OUTSIDE-MACH	AREA-87	0
OUTSIDE-MACH	AREA-91	0
SHOP.	AREA-51	0
SHOP.	AREA-(50	0
SHOP.	AREA-65	0
SHOP.	AREA-70	0
SHOP.	AREA-74	0
SHOP.	AREA-84	0
SHOP.	AREA-87	0
SHOP.	AREA-91	0
AREA-51	AREA-60	385

AREA-51	AREA-65	350
AREA-51	AREA-70	110
AREA-51	AREA-74	165
AREA-51	AREA-84	165
AREA-51	AREA-87	350
AREA-51	AREA-91	285
AREA-60	AREA-65	155
AREA-60	AREA-70	305
AREA-60	AREA-74	210
AREA-60	AREA-84	345
AREA-60	AREA-87	265
AREA-60	AREA-91	235
AREA-65	AREA-70	290
AREA-65	AREA-74	190
AREA-65	AREA-84	320
AREA-65	AREA-87	240
AREA-65	AREA-91	210
AREA-70	AREA-74	100
AREA-70	AREA-84	45
AREA-70	AREA-87	140
AREA-70	AREA-91	130
AREA-74	AREA-84	135
AREA-74	AREA-87	190
AREA-74	AREA-91	180
AREA-84	AREA-87	185
AREA-84	AREA-91	155
AREA-87	AREA-91	80

SECTION 3 MANUAL METHODS

1116, TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-I USING SM-STRAD-E TO ZONE-2
- 1117+ TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY

... SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING SM-STRAD-E TO ZONE-6
- 1118. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENTS OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING SM-STRAD-E TO ZONE-8

1119. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER REGINS AT ZONE-2

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-2 USING SM-STRAD-E TO ZONE-8
- 1120. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRASDDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAD-E TO ZONE-5
- 1121, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRAZiIILE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAD-E TO ZONE-6

1122. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAD-E TO ZONE-8
- 1123, TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-6
- 1124. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-7

1156. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-8
- 1126. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SHALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-9
- 1127. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING SM-STRAD-E TO ZONE-8

1128. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING SM-STRAD-E TO ZONE-9
- 1129. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER HOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING SH-STRAD-E TO ZONE-9
- 1130. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVETMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING SM-STRAD-E TO ZONE-9

1131. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING SM-STRAD-E TO ZONE-1
- 1132. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SHALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S24

- 1 TRANSPORT PALLET (EMPTY) FROM S24 USING SM-STRAD-E TO S25
- 1133. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

1 TRANSPORT PALLET (EMPTY) FROM S3 USING SM-STRAD-E TO S11

1134. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- X REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

- 1 TRANSPORT PALLET (EMPTY) FROM S3 USING SM-STRAll-E TO S10
- 1135. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S10

- 1 TRANSPORT PALLET (EMPTY) FROM S10 USING SM-STRAD-E TO S11
- 1136. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SHALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING SM-STRAD-E TO AREA-87

1137. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-74 USING SM-STRAD-E TO AREA-
- 1138, TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA:74

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-74 USING SM-STRAD-E TO AREA-
- 1139. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

1 TRANSPORT PALLET (EMPTY) FROM AREA-70 USING SM-STRAD-E TO AREA-

847. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVETMENT OF A LOOSE LOADED
- *...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

- 1 TRANSPORT PALLET RAISE FROM ZONE-1 USING SM-STRAD-L TO ZONE-9 LOWER
- 859. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-L TO ZONE-6 LOWER
- 870. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-L TO ZONE-6 LOWER

872. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-S

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-L TO ZONE-8 LOV
- 873. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT (3FG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVETMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-L TO ZONE-9 LOW
- 876. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSEB TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-6 USING SM-STRAD-L TO ZONE-8 LOW

884, TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

- 1 TRANSPORT PALLET RAISE FROM ZONE-9 USING SM-STRAD-L TO ZONE-10 LOWER
- 899. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ... SMALL STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-2

- 1 TRANSPORT PALLET RAISE FROM ZONE-2 USING SM-STRAD-S TO ZONE-8 LOWER
- 900. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

1 TRANSPORT PALLET RAISE FROM ZONE-2 USING SM-STRAD-S TO ZONE-9 LOWER

903. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-S TO ZONE-5 LOW
- 907. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIFIYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-S TO ZONE-9 LOW
- 916, TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-S TO ZONE-7 LOW

917. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSEIL TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-S TO ZONE-8 LOWER
- 920, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET RAISE FROM ZONE-6 USING SM-STRADS TO ZONE-7 LOWER
- 925. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING SM-STRAD-S TO ZONE-9 LOWER

927. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET RAISE FROM ZONE-8 USING SM-STRAD-S TO ZONE-9 LOW
- 929. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

- 1 TRANSPORT PALLET RAISE FROM ZONE-9 USING SM-STRAD-S TO ZONE-10 LC
- 1073. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

1 TRANSPORT PALLET RAISE FROM S3 USING SM-STRAD-L TO S10 LOWER

1082. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

- 1 TRANSPORT PALLET RAISE FROM AREA-70 USING SM-STRAD-L TO AREA-74 LOWER
- 1083. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ... SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

- 1 TRANSPORT PALLET RAISE FROM AREA-70 USING SM-STRAD-E TO AREA-84 LOWER
- 1084. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ... SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

1 TRANSPORT PALLET RAISE FROM AREA-74 USING SM-STRAD-S TO AREA-84 LOWER

SECTION 4 STANDARD TIME CALCULATION

4.1 TITLESHEETS

TRANSPORT PALLET ON (SM) STRADDLE-CARRIER AT ANY SHIPYARD TR

Titlesheet Organization List

 $M \circ v e$

- 1116. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1117. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1118. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TITLE
- 1119. TRANSPORT PALLET ON (SMALL) STRATDDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1120. TRANSPORT PALLET ON (SHALL) STRATDDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1121. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHTPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1122. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1123. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1124. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1156. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD

- TRANSPORTATION
 REPRESENTS ELAPSED TIME
- 1126. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1127. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1128. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1129. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1130. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1131. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1132. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARDS TRANSPORTATION REPRESENTS ELAPSED TIME
- 1133. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1134. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1135. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1136. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME

- 1137. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1138. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1139. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 847. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 859. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 870. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 872. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 873. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 876. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 884. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 899. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION REPRESENTS ELAPSED TIME
- 900. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION REPRESENTS ELAPSED TIME

- 903. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 907. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 916. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 917. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 920. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 925. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 927. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 929. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1073. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1082. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1083. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1084. TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

REPRESENTS ELAPSED TIME

4.2 HOW TO CALCULATE TIME STANDARDS

M O S T OPERATION TIME CALCULATION						
DETAIL/UNIT/PART	Х	REV. LTR/DATE	Х			
PROCESS/OPER CODE	OPERATE	STANDARD CODE	X			
PART NAME	SMALL STRADDLE CARRI	ER				
SHIP CLASS	х	HULL	x			
COST CLASS/JOB #	X	TRADE	TRANSPORTATION			
GROUP (UNIT/ZONE)	X	WORK AREA	SHIPYARD			
SUB-GROUP	х	WORK ZONE	x			
SUB-SUB-GROUP	X	WORK CENTER	X			
CREW/MACHINE	1 DRIVER	ASSET/MACHINE	X			
ITEM	x	SUB-ITEM	x			
GEN. DRAWING	х	WORK ORDER	X			
DET. DRAWING	ς	SHEET	1			
WORK PACKAGE	х	APPLICATOR	PP			
OPER, DESCRIPTION	OPERATE SHALL STRADD	LE CARRIER ON .	A TYPICAL DAY			
7:30 AM TO 12:00 NOON						
DATE	25-JUL-83	ISSUE #	1			

1 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (E(1136) MPTY)

Step Method Instruction

Freq

^{*} REPRESENTS MOVEMENT OF AN EMPTY -

^{* ..}SMALL-STRADDLE CARRIER

^{* 9-84-1} TO 9-87-5 TO GAS PUMP

^{*} FILL GAS TANK

TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1137) MPTY)

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SHALL STRADDLE CARRIER
- * 9-87-5 TO 9-74-10 TO SHEET METAL SHOP
- 3 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (L(873) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ... SMALL STRADDLE CARRIER
 - * 9-74-10 TO 5-34-11 TO 34 AREA
 - * SKIDS EMPTY
- 4 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1156) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-11 TO 8-3-4 TO SUPT. BLDG.
 - * PICK UP LIFT LIST
- 5 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1122) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-3-4 TO 3-2-3 TO SHAPE BLASTER
- 4 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (L(859) OOSE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 3-2-3 To 6-42-12 To FAB SHOP
 - * SKIDS ANGLES
- 7 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1121) MPTY)
 - * REPRESENTS MOVEHENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-12 TO 3-2-3 TO SHAPE BLASTER
- 8 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(859) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 3-2-3 To 6-42-12 TO FAB SHOP
 - * SKIDS ANGLES
- 9 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1117)

MPTY)

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER
- * 6-42-12 TO 1-2-4 TO BASIN NORTH
- 10 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (L(847) OOSE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 1-2-4 TO 9-84-5 TO WAREHOUSE
 - * SKIDS LADDERS
- 11 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1136) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-5 TO 9-87-1 TO GARAGE
- * MINOR REPAIRS 12 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1130) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ... SMALL STRADDLE CARRIER
 - * 9-87-1 TO 8-3-4 TO SUPT. BLDG.
 - * PICK UP LIFT LIST
- 13 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1127) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-3-4 TO 6-42-10 TO FAB SHOP
 - * CAN'T LOCATE LIFT
- 14 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-10 TO 5-34-25 TO 34 AREA
- 15 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - ... SHALL STRADDLE CARRIER
 - * 5-34-25 TO 6-42-3 TO FAB SHOP
 - * SKIDS ANGLES
- 16 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1128)

MPTY)

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...SMALL STRADDLE CARRIER
- * 6-42-3 TO 9-84-4 TO WAREHOUSE
- 17 TRANSPORT PALLET ON (SHALL) STRADDLE CARRIER (S(1083) E C U R E)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-4 TO 9-70-6 TO ELECTRIC SHOP
 - * SKIDS ANGLE
- 18 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1126) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SHALL STRADDLE CARRIER
 - * 9-70-6 TO 5-34-23 TO 34 AREA
- 19 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ... SMALL STRADDLE CARRIER
 - * 5-34-25 TO 6-42-3 TO FAB SHOP
 - * SKIDS ANGLES
- 20 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-3 TO 5-34-23 TO 34 AREA
- 21 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-25 TO 6-42-3 TO FAR SHOP
 - * SKIDS PLATES
- 22 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1133) MFTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-3 TO 6-42-11
- 23 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER
- * 6-42-11 TO 5-34-25 TO 34 AREA
- * SKIDS PLATES
- 24 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1132) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-25 TO 5-34-24
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-24 TO 6-42-3 TO FAB SHOP
 - * SKIDS PLATES
- 26 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-3 TO 5-34-25 TO 34 AREA
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-25 TO 6-42-3 TO FAB SHOP
 - * SKIDS PLATES
- 28 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ... SMALL STRADDLE CARRIER
 - * 6-42-3 TO 5-34-24 TO 34 AREA
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (1(872) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-24 TO 8-58-9 TO BOILER SHOP
 - * SKIDS PLATES
- 30 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1130) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY

- * ...SMALL STRADDLE CARRIER
- * 8-58-9 TO 9-74-10 TO SHEET METAL SHOP
- 31 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(873) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-74-10 TO 5-34-8 TO 34 AREA
 - * SKIDS VENTS
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * S-34-8 TO 6-42-10 TO FAB SHOP
- 33 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L{ 1073) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-10 TO 6-42-3
 - * SKIDS T-BARS
- 34 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1134) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-3 TO 6-42-10
- 35 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1127) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-10 TO 8-3-4 TO SUPT. BLDG.
 - * LUNCH

N O S T OPERATION TIME CALCULATION

STEP	SA	FREQ	INTERNAL THU	EXTERNAL THU	L0C #
1 2	0.00	1,00 1.00		2900. 2900.	1136 1137
3 4	0*00 0.00	1000 1.00		12000. 5500.	873 1156
!5	0.00	1.00		6700 .	1122
6	$0.00 \\ 0.00$	1.00 1.00		10500. 5500.	859 1121
7 8	0.00	1.00		10500.	859
9	0*00	1.00		6700.	1117
10	0.00 0.00	1.00 1.00		15500. 2900.	847 1136
11 12	0.00	1.00		5500.	1130
13	0*00	1+00		5500.	1127
14	0.00 0*00	$4.00 \\ 4.00$		18000. 36400.	1123 870
15 16	0.00	1.00		6700.	1128
17	0.00	1.00		3900.	1083
18	0.00 000	1.00 1.00		6700. 9100.	1126 870
19 20	0.00	1.00		4500.	1123
2 <u>1</u> 22	0.00	1.00		9100.	870
	0.00	4.00		9200.	1133
23 24	$0000 \\ 0.00$	$4.00 \\ 4.00$		36400. 9200.	870 1132
25	0.00	4.00		36400.	870
26	0.00	4.0	0	18000.	1123
27 28	0.00 0.00	4.00 1.00		36400. 4500.	870 1123
29	0.00	1.00		10500.	872
30	0.00	1.00		5500.	1130
31 32	0000 0.00	1.00 1*00		12000. 4500.	873 1123
33	0,00	5.00		33000,	1073
34	0.00	5.00		14500.	1134 1127
35	0.00	1.00		5500 .	1127
MANUAL TIME(TMU)			0.	422600.	
ACTUAL PROCESS TIME(TMU)			0.	0	

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FACTORED PROCESS TIME (TMU)		0
TOTAL INTERNAL TIME(TMU)		0
TITLE SHEET USED IN SETTING STANDARD:	0	

M O S T OPERATION TIME CALCULATION

Engineered Operation Time Calculation

Type of. Work	Elemental Time	Percent Allowance	Allowance Time	Standard Time
EXTERNAL MANUAL	4.226		0.000	4.226
ASSIGNED INTERNAL	(0.000)	()	(0.000)	(0.000)
PROCESS TIME	0.000		0,000	0.000
STANDARD(HRS,/CYCLE)	4. 226		0.000	4.226
PIECES PER CYCLE				
STANDARD HOURS				4.2

M O S T OPERATION TIME CALCULATION

DETAIL/UNIT/PART	X	REV, LTR/DATE	X
PROCESS/OPER CODE	OPERATE	STANDARD CODE	X
PART NAME	SMALL STRADDLE CARRI	ER	
SHIP CLASS	х.	HULL	х
COST CLASS/JOB #	X	TRADE	TRANSPORTATION
GROUP (UNIT/ZONE)	Х	WORK AREA	SHIPYARD
SUB-GROUP	x	WORK ZONE	x
SUB-SUB-GROUP		WORK CENTER	x
CREW/MACHINE		ASSET/MACHINE	x
ITEM	x	SUB-ITEM	x
GEN. DRAWING	X	WORK ORDER	x
DET+ DRAWING	X	SHEET	1
WORK PACKAGE	х	APPLICATOR	PA
OPER. DESCRIPTION	OPERATE SMALL STRADDI	LE CARRIER ON A	A TYPICAL DAY
	12:30 PM TO 4:00 PM		
DATE	25-JUL-83	ISSUE #	1

Step Method Instruction

Freq

¹ TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E{ 1131) MPTY)

^{*} REPRESENTS MOVEMENT OF A EMPTY

^{* ...}SMALL STRADDLE CARRIER

^{* 8-3-4} TO 10-52-1 TO PIPE STORAGE

TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(929) ECURE)

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...SMALL STRADDLE CARRIER
- * 10-52-1 TO 9-84-4 TO WAREHOUSE
- * CRADLE-PIPE
- 3 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(927) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-4 TO 8-58-4 TO BOILER SHOP
 - * PLATFORM LADDERS
- 4 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1130) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ... SMALL STRADDLE CARRIER
 - * 8-58-4 TO 9-84-2 TO WAREHOUSE
- 5 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(1084) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-4 TO 9-74-4 TO SHEET METAL SHOP
 - * PLATFORM FLAT BAR
- 6 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1138) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY*
 - * ... SMALL STRADDLE CARRIER
 - * 9-74-4 TO 9-84-4 TO WAREHOUSE
- 7 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(1082) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-4 TO 9-70-4 TO ELECTRIC SHOP
 - % SKIDS VENTS
- 8 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1139) MFTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 9-70-4 TO 9-84-4 TO WAREHOUSE
- 9 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(907 ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED

- * ...SMALL STRADDLE CARRIER
- *9-84-4 TO 3-7-10 TO 602 TRACK
- * PLATFORM PLATES
- 10 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1120) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ... SMALL STRADDLE CARRIER
 - * 3-7-10 TO 5-34-13 TO 34 AREA
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(903) 11 ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ... SMALL STRADDLE CARRIER
 - * 5-34-13 TO 3-25-1 TO 25 AREA
 - * CRADDLE EMPTY
- 12 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1.121) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 3-25-1 TO 6-2-1 TO PANEL SHOP STORAGE
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(920) 13 ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED

 - * ...SMALL STRADDLE CARRIER * 6-2-1 To 7-52-1 TO PIPE SHOP
 - * CRADLE EMPTY
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(916) 14 ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 7-52-1 TO 5-34-2 TO 34 AREA
 - * CRADLE EMPTY
- 15 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1124) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ... SMALL STRADDLE CARRIER
 - * 5-34-2 TO 7-52-1 TO PIPE SHOP
 - * LIFT-NOT THERE
- 16 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1129) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY

- * ... SMALL STRADDLE CARRIER
- * 7-52-1 TO 9-84-4 TO WAREHOUSE
- 17 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(925) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - ... SMALL STRADDLE CARRIER
 - * 9-84-4 TO 7-1-2 TO 1-PIER
 - * PLATFORM PIPE
- 18 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1124) MFTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - ... SMALL STRADDLE CARRIER
 - * 7-1-2 TO 5-34-13 TO 34 AREA
- 19 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(917) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-13 TO 8-58-1 TO BOILER SHOP
 - * CRADLE EMPTY
- 20 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1118) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-58-1 TO 1-2-4 TO BASIN NORTH
 - * CAN'T PICK UP LIFT
- 21 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1116) MPTY)
 - REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER * 1-2-4 To 2-12-3 To 12 TABLE

 - TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(900) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 2-12-3 To 9-84-7 TO WAREHOUSE
 - * CRADLE SCRAP-PAN
- 23 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1128) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...SMALL STRADDLE CARRIER

- * 9-84-7 TO 6-42-10 TO FAB SHOP
- * LIFT NOT THERE
- 24 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1135) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-10 TO 6-42-11
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(870) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-11 TO 5-34-24 TO 34 AREA
 - * SKIDS PLATES
- 26 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1123) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 5-34-24 TO 6-42-11 TO FAB SHOP
- 27 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(876) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 6-42-11 TO 8-58-9 TO BOILER SHOP SKIDS PLATES
- 28 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1119) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-58-9 TO 2-13-1 TO 13 TABLE
- TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(899) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 2-13-1 TO 8-72-2 TO CARPENTER SHOP
 - X SKIDS LADDERS
- 30 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1131) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-72-2 TO 10-52-1 TO PIPE STORAGE

- 31 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (L(884) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 10-52-1 TO 9-84-4 TO WAREHOUSE SKIDS- PIPE
- 32 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (S(1084) ECURE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...SMALL STRADDLE CARRIER
 - * 9-84-4 TO 9-74-4 TO SHEET METAL SHOP
 - * SKIDS FLAT BAR
- 33 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1130) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 9-74-4 TO 8-3-4 TO SUPT. BLDG.
 - * TURN IN DAILY TRANSPORTATION LOG
- 34 TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (E(1130) MPTY)
 - * REPRESENTS MOVEMENT OF A EMPTY
 - * ...SMALL STRADDLE CARRIER
 - * 8-3-4 TO 9-87-5 TO GARAGE
 - * END OF SHIFT

H O S T OPERATION TIME CALCULATION

STEP	SA	FREQ	INTERNAL THU	EXTERNAL THU	LOC #
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	0.00 0.00	1.00 1.00 1.00 4.00 4.00 1.00 1.00 1.00		6700 9100. 9100. 5500. 22400. 9200. 5600. 2300. 12000. 5500. 9100. 36400. 22000. 5500. 9100. 8000. 4500. 12000 6700. 2300, 36400. 12000. 6700. 10500. 6700. 10500. 5500.	1131 929 927 1130 1084 1138 1082 1139 907 1120 903 1121 920 916 1124 1129 925 1124 917 1118 1116 900 1128 1135 876 1119 899 1131 884 1084 1130
MANUAL TIME(TMU)			0.	770700.	
ACTUAL PROCESS TIME(THU)			0.	0.	

FACTORED PROCESS TIME(TMU)		0 .
TOTAL INTERNAL TIME(TMU)		0 .
TITLE SHEET USED IN SETTING STANDARD:	0	

M O S T OPERATION TIME CALCULATION

Engineered Operation Time Calculation

Type of Work	Elemental Time	Percent Allowance	Allowance Time	Standard Time
EXTERNAL MANUAL	3.481		0*000	3,481
ASSIGNED INTERNAL	(0.000)	()	0.000) (0.000)
PROCESS TIME	0.000		0.000	0.000
STANDARD(HRS./CYCLE)	3.481		0.000	3.481
PIECES PER CYCLE	1			
STANDARD HOURS				3.5

SECTION 5 DATA SYNTHESIS AND BACK-UP

5.1 SUMMARY

1116. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

TOTAL TMU 4500.

1117. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

TOTAL TMU 6700.

1118, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
 * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

TOTAL TMU 8000.

1119. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

TOTAL TMU 6700.

1120. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL THU 5500,

1121. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1122. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL TMU 6700.

1123. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL THU 4500,

1124, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1156. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 5500.

1126, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 6700.

1127. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1128. TRANSPORT PALLET ON (SMALL) STRADDBLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

TOTAL TMU 6700.

1129. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

TOTAL TMU 5500.

1130. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1131. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

TOTAL TMU 6700.

1132. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIUER REGINS AT S24

TOTAL THU 2300.

1133. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER HOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S3

TOTAL THU 2300.

1134. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OF(3: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

TOTAL TMU 2900.

1135. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S10

TOTAL TMU 2300.

1136. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

TOTAL TMU 2900.

1137. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74.

TOTAL TMU 2900.

1138. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

TOTAL TMU 2300.

1139. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

TOTAL TMU 2300.

847. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER
 STRADDLE-DRIVER BEGINS AT ZONE-1

TOTAL THU 15500.

859. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83
REPRESENTS ELAPSED TIME
* REPRESENTS MOVEMENT OF A LOOSE LOADED
* ...SMALL STRADDLE CARRIER
STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL TMU 10500.

870, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 9100.

872. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 10500.

873. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 12000.

874. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

TOTAL THU 10500.

884. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

TOTAL TMU 10500.

899. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

TOTAL THU 10500.

900. TRANSPORT PALLET ON (SMALL) STRADDULE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

TOTAL THU 12000.

903. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADTILE-DRIVER BEGINS AT ZONE-3

TOTAL THU 9100.

907. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL TMU 12000.

916. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER REGINS AT ZONE-5

TOTAL THU 9100.

917. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 9100.

920. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

TOTAL TMU 9100.

925. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL;83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

TOTAL TMU 9100.

927. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

TOTAL TMU 9100.

929. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIUER BEGINS AT ZONE-9

TOTAL TMU 9100.

1073. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S3

TOTAL THU 6600.

1082. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

TOTAL TMU 5600.

1083. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

TOTAL TMU 3900.

1084. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

TOTAL TMU 5600.

5.2 SYNTHESIS AND ANALYSIS

1116. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING SM-STRAD-E TO ZONE Al S6 T6 LO T32 LO TO AO 1.00 450

TOTAL TMU 450

1117. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING SM-STRAD-E TO ZONE Al S6 T6 LO T54 LO TO AO 1.00 670

TOTAL TMU 670

1118. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET (EMPTY) FROM ZONE-1 USING SM-STRAD-E TO ZONE Al S6 T6 LO T67 LO TO AO 1.00 800

TOTAL TMU 800

1119. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-2

1 TRANSPORT PALLET (EMPTY) FROM ZONE-2 USING SM-STRAII-E TO ZONE-8 Al S6 T6 LO T54 LO TO AO 1.00 6700.

TOTAL TMU 6700.

1120. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAD-E TO ZONE-5 Al S6 T6 LO T42 LO TO AO 1.00 5500+

TOTAL TMU 5500.

1121. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRAIIDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAD-E TO ZONE-6 Al S6 T6 LO T42 LO TO AO 1.00 5500.

TOTAL TMU 5500.

1122. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING SM-STRAU-E TO ZONE-8 Al S6 T6 LO T54 LO TO AO 1.00 6700.

TOTAL TMU 6700.

1123. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-6 Al S6 T6 LO T32 LO TO AO 1000 4500.

TOTAL TMU 4500.

1124. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TITLE

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-7 Al S6 T6 LO T42 LO TO AO 1.00 5500.

TOTAL TMU 5500.

1156. TRANSPORT PALLET ON (SMALL) STRADBLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-8 Al S6 T6 LO T42 LO TO A() 1.00 5500.

TOTAL TMU 5500.

1126. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OF(3: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING SM-STRAD-E TO ZONE-9 Al S6 T6 LO T54 LO TO AO 1.00 6700.

TOTAL TMU 6700.

1127. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TITLE

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING SM-STRAD-E TO ZONE-8 Al S6 T6 LO T42 LO TO AO 1.00 5500.

TOTAL TMU 5500.

1128.	TRANSPORT	PALLET	ON	(SMALL)	STRADDLE	CARRIER	(EMPTY)	ΑT	ANY	SHIPY
	TRANSI	PORTATIO	NC							

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING SM-STRAD-E TO ZONE-6 LO 154 LO TO AO 1,00 6

TOTAL TMU 67

1129, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIP: TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING SM-STRAD-E TO ZON Al S6 T6 LO T42 LO TO A() 1.00 55

TOTAL TMU

55

55

1130. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIP' TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING SM-STRAD-E TCI ZON Al S6 T6 LO T42 LO TO A0 1.00 55

TOTAL TMU

1131. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSFORMATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAFSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMFTY) FROM ZONE-8 USING SM-STRAD-E TO ZONE-10 Al S6 T6 LO T54 LO TO AO $1.00\,$ 6700.

TOTAL TMU 6700.

1132. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S24
 - 1 TRANSPORT PALLET (EMPTY) FROM S24 USING SM-STRAD-E TO S25 Al S6 T6 LO TIO LO TO AO 1.00 2300.

TOTAL TMU 2300.

1133. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

1 TRANSPORT PALLET (EMPTY) FROM S3 USING SM-STRAD-E TO S11 Al S6 T6 LO TIO LO TO AO 1.00 2300.

TOTAL TMU 2300.

1134. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

1 TRANSPORT PALLET (EMPTY) FROM S3 USING SM-STRAD-E TO S10 Al S6 T6 LO T16 LO TO AO 1.00 2900

TOTAL TMU 2900

1135. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S10

1 TRANSPORT PALLET (EMPTY) FROM S10 USING SM-STRAD-E TO S11 Al S6 T6 LO TIO LO TO AO 1.00 2300

TOTAL TMU 2300

1136. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ... SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING SM-STRAD-E TO AREA Al S6 T6 LO T16 LO TO AO 1.00 2900

TOTAL TMU 2900

1137. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ... SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

1 TRANSPORT PALLET (EMPTY) FROM AREA-74 USING SM-STRAD-E TO AREA-87 Al S6 T6 LO T16 LO TO AO 1.00 2 9 0 0,

TOTAL TMU 2900.

1138, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

1 TRANSPORT PALLET (EMPTY) FROM AREA-74 USING SM-STRAD-E TO AREA-84 Al S6 T6 LO TIO LO TO AO 1.00 2300.

TOTAL TMU 2300.

1139. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

1 TRANSPORT PALLET (EMPTY) FROM AREA-70 USING SM-STRAD-E TO AREA-84 Al S6 T6 LO TIO LO TO AO 1.00 2300.

TOTAL TMU 2300.

847, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-1

1 TRANSPORT PALLET RAISE FROM ZONE-1 USING SM-STRAD-L TO ZONE-9 LOV Al S6 T1 L10 T131L6 TO AO 1.00 15500.

TOTAL TMU 15500.

859. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-L TO ZONE-6 LOV Al S6 T1 L10 T81 L6 TO AO 1.00 10500.

TOTAL TMU 10500.

870, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-L TO ZONE-6 LOW Al S6 T1 L10 T67 L6 TO A0 1.00 9100.

TOTAL TMU 9100.

872. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-S USING SM-STRAD-L TO ZONE-8 LOWER AL S6 T1 L10 T81 LA TO AO 1,00 10500.

TOTAL TMU 10500.

873. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT ZONE-5
- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-L TO ZONE-9 LOWER Al S6 T1 L10 T96 L6 TO AO 1000 12000.

TOTAL TMU 12000.

876, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-6 USING SM-STRAD-L TO ZONE-8 LOWER Al S6 T1 L10 T81 L6 TO AO 1.00 10500.

TOTAL TMU 10500.

884. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET RAISE FROM ZONE-9 USING SM-STRAD-L TO ZONE-10 LOV Al S6 T1 L10 T81 L6 TO AO 1.00 10300.

TOTAL TMU 10500.

899. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

1 TRANSPORT PALLET RAISE FROM ZONE-2 USING SM-STRAD-S TO ZONE-8 LOWE AT S6 TT L10 T81 L6 TO AO 1.00 10500.

TOTAL TMU 10500.

900. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-2

1 TRANSPORT PALLET RAISE FROM ZONE-2 USING SM-STRAD-S TO ZONE-9 LOWE AL S6 T1 L10 T96 L6 TO AO 1.00 12000.

TOTAL THU 12000.

903. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER HOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TITLE

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-S TO ZONE-5 LOWER A1 S6 T1 L10 T67 L6 TO A0 1.00 9100.

TOTAL TMU 9100

907, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING SM-STRAD-S TO ZONE-9 LOWER Al S6 T1 L10 T96 L6 TO AO 1.00 12000.

TOTAL TMU 12000.

916. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-S TO ZONE-7 LOWER Al S6 T1 L10 T67 L6 TO AO 1.00 9100.

TOTAL TMU 9100.

917, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING SM-STRAD-S TO ZONE-8 LOWE AL S6 T1 L10 T67 L6 TO A0 1.00 9100.

TOTAL TMU 9100,

920. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-A USING SM-STRAD-S TO ZONE-7 LOWE AL S6 T1 L10 T67 L6 TO AO 1.00 9100

TOTAL TMU 9100.

925. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING SM-STRAD-S TO ZONE-9 LOWE Al S6 T1 L10 T67 L.6 TO AO 1.00 9100.

TOTAL TMU 9100

927. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OF(3: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM-ZONE-8 USING SM-STRAD-S TO ZONE-9 LOWER Al S6 T1 L10 T67 L6 TO AO 1.00 9100.

TOTAL TMU 9100

929+ TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIFYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 19-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET RAISE FROM ZONE-9 USING SM-STRAD-S TO ZONE-10 LOWER Al S6 T1 L10 T67 L6 TO AO 1.00 9100.

TOTAL TMU 9100.

1073. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S3

1 TRANSPORT PALLET RAISE FROM S3 USING SM-STRAD-L TO S10 LOWER
Al S6 T1 LI0 T42 L.6 TO AO 1.00 6600.

TOTAL TMU 6600.

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1082, TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

1 TRANSPORT PALLET RAISE FROM AREA-70 USING SM-STRAD-L TO AREA-74 LOWER

A1 S6 T1 L10 T32 L6 TO AO 1600 5600.

TOTAL TMU 5600.

1083. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSFORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-70

1 TRANSPORT PALLET RAISE FROM AREA-70 USING SM-STRAD-E TO AREA-84 LOWER

41 S6 T6 L10 TI0 L6 TO AO 1.00 3900.

TOTAL TMU 3900.

1084. TRANSPORT PALLET ON (SMALL) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIMEE

- * REPRESENTS MOVEMENT OF A EMPTY
- * ...SMALL STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-74

1 TRANSPORT PALLET RAISE FROM AREA-74 USING SM-STRAD-S TO AREA-84 LOWER

Al S6 TI L10 T32 L6 TO AO 1000 5600.

TOTAL TMU 5600.

WORK MANAGEMENT MANUAL

BACK-UP DATA for MATERIAL HANDLING EQUIPMENT LARGE STRADDLE CARRIER

Prepared for

SNAME Panel SP-8 MarAd Task Es-8-15 Under direction of H.B. Maynard & Co.

Prepared by

Industrial Engineering Department
Bethlehem Steel Corporation
Marine Construction Group
Sparrows Point, Maryland
July, 1983

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SECTION 1 SCOPE

This manual contains the back-up data for the large straddle carrier movements on a typical day. The data includes pertinent work areas, titlesheets? time standards and manual methods. Any further information about the large straddle carrier or any of the data can he found in the general work Management Manual on Material Handling Equipment.

SECTION 2 JOB LAYOUT - WORK AREAS

			YARD-Z	DNES			=		_
i i i	! ! ZONE-1 ! !		WATE	R	! ! !	! ! !	!		! ! !
!	ROAD-1 !		! !	! !	! ! 2 !	! !ONE-7 ! !	! Z(! !	DNE-10	! ! !
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	. ! ! ZONE-2 ! ! !	ZONF-4	! ZONE-5 ! !	! ! !	! ! !	i i	!		! - ! ! !
1	(X) (X)		ROAD-2				 	ZONE-9	! !
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	ZONE-3	! ! !	ZONE-6	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! ! ! 2	! ! ! ! ! !	!!!		: ! !
_	Name		Loc	ation			Bod	⊌/Fras/!	PT

Name	Location		Body/Fras/PT
WORKPLACES:			
YARD-ZONES	35,21	0,0	
ROAD-1	. 0,13	10,2	
ROAD-1	0,5	59,2	
WATER	35,18	0,0	•
ZONE-1	0,15	10,5	
ZONE-2	0,7	10,6	
ZONE-3	0,0	20,5	
ZONE-4	10,7	15,8	
ZONE-5	25 + 7	15,8	
ZONE-6	20,0	20,5	
ZONE-7	45,7	10,14	
ZONE-8	45,0	10,5	
ZONE-9	60+0	10,10	
ZONE-10	60,11	10,9	•
OBJECTS:			
PALLETS	YARD-ZONES		FRAG
BOLSTERS	YARD-ZONES		FRAG
UNITS	YARD-ZONES		FRAG

EQUIPMENT:

EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-S LG-STRAD-E LG-STRAD-E LG-STRAD-E	YARD-ZONES	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS:	2045. 0	5,6 B
FORK-DRIVER STRADDLE-DRIVER	ROAD-2 ROAD-2	10,6
From	To	. Steps
YARD-ZONES	ROAD-1	0
YARD-ZONES	ROAD-2	0
YARI-ZONES	WATER	0
YARD-ZONES	ZONE-1	. 0
YARD-ZONES	ZONE-2	0
YARD-ZONES	ZONE-3	0
YARD-ZONES	ZONE-4	0
YARD-ZONES	ZONE-5	0
YARI-ZONES	ZONE-6	0
YARD-ZONES	ZONE-7	0
YARD-ZONES	ZONE-8	0
YARD-ZONES	ZONE-9	0
YARD-ZONES	70NE-10	O
ROAD-1	ROAD-2	0
ROAD-1	WATER	O
ROAD-1	ZONE-1	0
ROAD-1	ZONE-2	0
ROAD-1	ZONE-3	0
RDAU-1	ZONE-4	O ₂
ROAD-1	ZONE-5	0
ROAD-1	ZONE-6	0
ROAD-1	ZONE-7	0
ROAU-1	ZONE-8	0
ROAD-1	ZONE-9	0
ROAD-1	ZONE-10	0
ROAD-2	WATER	0
ROAD-2	ZNNE-1	0

ROAD-2	ZONE-2	0
ROAD-2	ZONE-3	0
ROAD-2	ZONE-4	0
ROAD-2	ZONE-5	0
ROAD-2	ZONE-6	0
ROAD-2	ZONE-7	0
ROAD-2	ZONE-8	. 0
ROAD-2	ZONE-9	0
ROAD-2	ZONE-10	0
WATER	ZONE-1	Ō
WATER	ZONE-2	0
WATER	ZONE-3	0
WATER	zONE-4	0
WATER	ZONE-5	0
WATER	ZONE-6	0
WATER	ZONE-7	0
WATER	ZONE-8	0
WATER	ZONE-9	0
WATER	ZONE-10	0
ZONE-1	ZONE-2	640
ZONE-1	ZONE-3	760
ZONE-1	ZONE-4	1190
ZONE-1		1250
	ZONE-5	
ZONE-1	ZONE-6	1180
ZONE-1	ZONE-7	1640
ZONE-1	ZONE-8	1560
ZONE-1	ZONE-9	1880
ZONE-1	ZONE-10	2240
ZONE-2	ZONE-3	500
ZONE – 2	ZONE-4	580
ZONE-2	ZONE-5	930
ZONE-2	ZONE-6	870
ZONE-2	ZONE-7	1340
ZONE – 2	ZONE-8	1150
ZONE-2	ZONE-9	1540
ZONE-2	ZONE-10	1910
ZONE-3	ZONE-4	650
ZONE-3	ZONE-5	940
ZONE-3	ZONE-6	810
		1290
ZONE-3	ZONE-7	
ZONE-3	ZONE-8	1180
ZONE-3	ZONE-9	1570
ZONE-3	ZONE-10	1960
ZONE-4	ZONE-5	600
ZONE-4	ZONE-6	610
ZONE-4	ZONE-7	1250
ZONE-4	Z O N E - 8	1140

ZONE-5-AREA-34-SQUARES

!!!\$25			
!S29!! ! !S28!	! ! \$15! ! \$24 ! ! \$14!	! S6 !	! !
!!! ! S27!	! ! \$13! ! \$23 ! ! \$12!	! S5 ! ! ! ! ! AREA-:	! ! !
! ! AREA-34 !!!	! ! S11! ! S22 ! ! S10!	! S4! ! S3 ! !	1 ! ! !
NO6-HEADHOUSE !!! 	! ! S9 ! ! S21 ! ! S8 !	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! ! !
! \$26! ! (X) (X)	S20 ROADWAY	· · ! \$1 !	ļ

Name	Locatio	n	Rody/Frag/PT
WORKPLACES:			
ZONE-5-AREA-34-SQUARES	35,21	0,0	
ROADWAY	0,0	71,2	
AREA-34	15,10	0,0	
AREA-1	60,2	10,18	
NO6-HEADHOUSE	0,5	5,4	
Si	50,2	10,2	
52	50,4	10,3	
S3	55,8	5,2	
54	50,9	5,3	
S5	50,13	10,2	
56	45,16	15,2	
\$7	45,19	15,1	
\$8	35,3	5,2	
S9	35,5	5,2	
S10	35,7	5,2	
S11	35,9	5,2	
S12	35,11	5,2	
S13	35,13	5,2	
S14 ·	35,15	5,2	•

\$15 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29	35,17 5,2 25,2 15,0 25,3 10,4 25,7 10,4 25,11 10,4 25,15 10,4 10,19 15,1 0,2 5,2 0,10 5,4 5,15 4,5 0,17 4,2	
OBJECTS: PALLETS BOLSTERS UNITS	AREA-34 AREA-34 AREA-34	FRAG FRAG FRAG
EQUIPMENT: FRK-E FRR-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-L LG-STRAD-L	ROADWAY	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	R O A D W A Y ROADWAY	10,1 B 15,1
From 	To	Steps
ZONE-5-AREA-34-SQUARES	ROADWAY AREA-34 AREA-1 NO6-HEADHOUSE S1 S2 S3 S4 S5 S6	0 0 0 0 0 0 0 0

ZONE-5-AREA-34-SQUARES	S8	0
ZONE-5-AREA-34-SQUARES	S9	0
	S10	ŏ
ZONE-5-AREA-34-SQUARES		
ZONE-5-AREA-34-SQUARES	S11	0
ZONE-5-AREA-34-SQUARES	S12	0
	S13	0
ZONE-5-AREA-34-SQUARES		
ZONE-5-AREA-34-SQUARES	S14	0
ZONE-5-AREA-34-SQUARES	S15	0
ZONE-5-AREA-34-SQUARES	\$20	0
~		
ZONE-5-AREA-34-SQUARES	S21 S22	0
ZONE-5-AREA-34-SQUARES		0
ZONE-5-AREA-34-SQUARES	S23	0
ZONE-5-AREA-34-SQUARES	S24	0
ZONE-5-AREA-34-SQUARES	S25	0
ZONE-5-AREA-34-SQUARES	S26	0
ZONE-5-AREA-34-SQUARES	927	0
	S27 S28	
ZONE-5-AREA-34-SQUARES		0
ZONE-5-AREA-34-SQUARES	S29	٥
ROADWAY	AREA-34	0
	AREA-1	Ō
ROADWAY		
ROADWAY	NO6-HEADHOUSE	0
ROADWAY	S1	0
ROADWAY	S2	0
ROADWAY	S3	0
ROADWAY	S4	0
ROADWAY	S5	0
	S6	0
ROADWAY		
ROASDWAY	S7	0
ROADWAY	S8	C
ROADWAY	S9	0
	Slo	Ö
ROADWAY		
ROADWAY	Sll	0
ROADWAY	S12	0
ROADWAY	S13	0
ROADWAY	S14	0
ROADWAY	S15 S20	0
ROADWAY	S20	0
ROADWAY	S21	0
ROADWAY	S22	0
ROADWAY	S23	0
ROADWAY	S24	0
	S25	Ō
ROADWAY	S26	
ROADWAY		0
ROADWAY	S27	0
ROADWAY	S28	0
	S29	0
ROADWAY		
AREA-34	AREA-1	0

		•
AREA-34	NO6-HEADHOUSE	0
AREA-34	S1	0
AREA-34	S2	0
AREA-34 AREA-34	S3	0
	S4	0
AREA-34	S5	0
AREA-34	S6	0
AREA-34	S7	0
AREA-34	\$8	0
AREA-34	S9	0
AREA-34	Slo	0
AREA-34	S11	0
AREA-34	S12	0
AREA-34	S13	0
AREA-34	S14	0
AREA-34	S15	0
AREA-34	S20	0
AREA-34	S21	0
AREA-34	S22	0
AREA-34	S23	0
AREA-34	S24	0
AREA-34	S 2 5	0
AREA-34	S26	0
AREA-34	\$27	0
AREA-34	S28	0
AREA-34	S29	0
AREA-34	NO6-HEADHOUSE	0
AREA-1		0
AREA-1	S1 S2	0
AREA-1	S3	0
AREA-1	S4	0
AREA-1	S5	0
AREA-1	S6	0
AREA-1	50 S7	0
AREA-1	S8	0
AREA-I		0
AREA-1	S9	0
AREA-1	Slo Sll	0
AREA-1	S12	0
AREA-1		0
AREA-1	S13	0
AREA-1	S14 S15	0
AREA-1		0
AREA-1	S20	0
AREA-1	S21 S22	0
AREA-1	S23	0
AREA-1	S24	0
AREA-1		J

	S25	0
AREA-1		
AREA-1	S26	0
AREA-1	S27	0
AREA-1	S28	
AREA-1	S29	0
NO6-HEADHOUSE	S1	0
NO6-HEADHOUSE	S2	0
No6-HEADHOUSE	S3	0
NO6-HEADHOUSE	S4	0
No6-HEADHOUSE	S5	0
NO6-HEADHOUSE	S6	0
NO6-HEAEHOUSE	S7	0
NO6-HEADHOUSE	S8	0
NO6-HEADHOUSE	S9	0
NO6-HEADHOUSE	Slo	0
NO6-HEADHOUSE	Sll	0
NO6-HEADHOUSE	S12	0
No6-HEADHOUSE	S13	0
NO6-HEADHOUSE	S14	0
NO6-HEADHOUSE	S15	0
NO6-HEADHOUSE	S20	0
NO6-HEADHOUSE	S21 S22	0
NO6-HEADHOUSE		0
NO6-HEADHOUSE	S23	0
NO6-HEADHOUSE	S24	0
NO6-HEADHOUSE	S25 S26	0
NO6-HEADHOUSE	S27	0
No6-HEADHOUSE	S28	0
NO6-HEADHOUSE	S28 S29	0
NO6-HEADHOUSE	S29 S2	80
S1	S3	148
S1	S4	155
S1	S5	195
S1	S6	215
S1	S7	245
S1	S8	85
S1	S9	110
S1	Slo	135
S1	S11	160
S1	Š12	185 210
S1 S1	S13	
S1 S1	S14	235
S1 S1	S15	260
S 1	S20	80
S1 S1	S21	150
S1	S22	200
O±		

S1	S23	250
Si Si	S24 S25	300 345
S1 S1	S26 S27	195 340
S1	S28	430
\$1 \$2	S29 S3	450 70
\$2	S4	85
\$2 \$2	S5 S6	170
S2	S7	185 220
\$2 \$2	S8 S9	70
\$2	Slo	70 95 120
S2 S2	S11 S12	
S2	S13	145 170
\$2 \$2	S14	185 220
S2	S15 S20	115
S2	S21 S22	90
\$2 \$2	S23 S24	140 185
\$2 \$2		235
\$2	S25 S26	280 175
S2	S27 S28	305
\$2 \$2	S29	395 415
\$3	S4	45
\$3 \$3	S5 S6	70 100
S3	S7	135
S3 S3	S8 S9	130 105
\$3	Slo	80
S3 S3	S11 S12	80 105
S 3	S13	130
S3 S3	S14 S15	155 180
S 3	\$20 \$21	185
\$3 \$3	S22	165 113
\$3	S23	145
83	S24	195

S3 S25 240 S3 S26 260 S3 S27 285 S3 S29 395 S4 S5 50 S4 S5 60 S4 S7 95 S4 S8 145 S4 S9 120 S4 S10 95 S4 S11 70 S4 S12 55 S4 S13 80 S4 S13 80 S4 S21 105 S4 S22 165 S4 S22 165 S4 S22 165 S4 <t< th=""><th></th><th></th><th></th></t<>			
53 \$26 260 83 \$27 285 83 \$28 375 \$3 \$29 395 \$4 \$5 50 \$4 \$5 60 \$4 \$7 95 \$4 \$8 145 \$4 \$9 120 \$4 \$10 95 \$4 \$10 95 \$4 \$10 95 \$4 \$11 70 \$4 \$11 70 \$4 \$11 95 \$4 \$11 95 \$4 \$11 95 \$4 \$11 95 \$4 \$11 105 \$4 \$14 105 \$4 \$14 105 \$4 \$21 115 \$4 \$21 115 \$4 \$22 165 \$4 \$22 165 \$4 \$23 105 \$4 \$24 \$25 \$4			240
\$33 \$228 \$375\$ \$33 \$228 \$375\$ \$34 \$35 \$228 \$375\$ \$4 \$55 \$56 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$6			
\$\frac{5}{53}\$ \$\frac{5}{28}\$ \$\frac{5}{39}\$ \$\frac{7}{39}\$ \$\frac{5}{39}\$ \$\frac{7}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac{5}{39}\$ \$\frac{1}{39}\$ \$\frac	S3	S26	
53 \$29 375 \$4 \$5 50 \$4 \$6 60 \$4 \$7 95 \$4 \$8 145 \$4 \$9 120 \$4 \$10 95 \$4 \$11 70 \$4 \$11 70 \$4 \$11 70 \$4 \$12 55 \$4 \$13 80 \$4 \$13 80 \$4 \$14 105 \$4 \$15 130 \$4 \$21 115 \$4 \$21 115 \$4 \$21 115 \$4 \$21 115 \$4 \$21 115 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 20 \$5 \$6 35 \$5 \$6 35 \$5 \$10 1	S3	S27	
S3 \$29 395 S4 \$5 50 S4 \$7 95 S4 \$8 145 S4 \$9 120 S4 \$10 95 S4 \$11 70 S4 \$12 55 S4 \$12 55 S4 \$12 55 S4 \$13 80 S4 \$13 80 S4 \$13 80 S4 \$13 105 S4 \$20 190 S4 \$21 115 S4 \$21 115 S4 \$22 165 S4 \$21 115 S4 \$22 165 S4 \$22 165 S4 \$22 165 S4 \$22 165 S4 \$23 105 S4 \$22 265 S4 \$22 265 S4 \$28 310 S5 </td <td>S3</td> <td></td> <td></td>	S3		
84 \$5 \$6 \$4 \$6 \$6 \$4 \$7 \$9 \$4 \$8 \$145 \$4 \$10 \$95 \$4 \$11 \$70 \$4 \$12 \$55 \$4 \$12 \$55 \$4 \$12 \$55 \$4 \$12 \$55 \$4 \$13 \$80 \$4 \$14 \$105 \$4 \$14 \$105 \$4 \$15 \$100 \$4 \$21 \$115 \$4 \$21 \$115 \$4 \$21 \$115 \$4 \$22 \$165 \$4 \$22 \$2 \$4 \$23 \$24 \$24 \$24 \$25 \$4 \$22 \$26 \$4 \$22 \$26 \$4 \$22 \$2 \$4 \$28 \$28 <t< td=""><td></td><td></td><td></td></t<>			
\$4 \$6 \$0 \$4 \$8 \$145 \$4 \$9 \$120 \$4 \$10 \$95 \$4 \$11 \$70 \$4 \$11 \$70 \$4 \$12 \$55 \$4 \$12 \$55 \$4 \$12 \$55 \$4 \$13 \$80 \$4 \$14 \$105 \$4 \$21 \$130 \$4 \$21 \$130 \$4 \$22 \$165 \$4 \$22 \$165 \$4 \$22 \$165 \$4 \$22 \$165 \$4 \$23 \$105 \$4 \$23 \$20 \$4 \$24 \$25 \$4 \$25 \$20 \$4 \$22 \$265 \$4 \$22 \$265 \$4 \$22 \$265 \$4 \$22 \$265 \$4 \$22 \$265 \$5 \$2 \$2		S5	
S4 S7 95 S4 S9 120 S4 S10 95 S4 S112 70 S4 S112 55 S4 S13 80 S4 S13 80 S4 S14 105 S4 S15 130 S4 S21 190 S4 S22 165 S4 S21 115 S4 S22 165 S4 S22 165 S4 S23 105 S4 S23 105 S4 S24 524 S4 S25 200 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S5 S6 35 S5 S8 195 S5 S8 195 S5 S11 10 S5 S12 20 S5		S6	
84 \$8 145 \$4 \$10 95 \$4 \$11 70 \$4 \$11 70 \$4 \$11 70 \$4 \$12 55 \$4 \$13 80 \$4 \$14 105 \$4 \$15 130 \$4 \$20 190 \$4 \$21 115 \$4 \$22 165 \$4 \$21 115 \$4 \$22 165 \$4 \$23 105 \$4 \$23 105 \$4 \$23 20 \$4 \$23 20 \$4 \$22 265 \$4 \$22 265 \$4 \$22 330 \$5 \$28 310 \$5 \$6 35 \$5 \$7 70 \$5 \$10 10 \$5 \$10 10 \$5 \$1 10 \$5		S7	
S4 S9 120 S4 S10 95 S4 S11 70 S4 S12 55 S4 S13 80 S4 S14 105 S4 S15 130 S4 S20 190 S4 S21 115 S4 S22 165 S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S29 330 S5 S6 35 S5 S8 195 S5 S8 195 S5 S8 195 S5 S10 145 S5 S11 85 S5 S14 85 S5		S8	
S4 S10 95 S4 S11 70 S4 S13 80 S4 S14 105 S4 S15 130 S4 S21 115 S4 S22 165 S4 S23 105 S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S8 195 S5 S11 120 S5 S12 95 S5 S12 95 S5 S13 70 S5 S12 95 S5 S12 10 S5 S21 10 S5		S9	
\$4 \$11 70 \$4 \$13 80 \$4 \$13 80 \$4 \$14 105 \$4 \$21 130 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$22 165 \$4 \$23 105 \$4 \$23 105 \$4 \$24 155 \$4 \$25 200 \$4 \$25 200 \$4 \$28 310 \$4 \$28 310 \$5 \$6 35 \$5 \$7 70 \$5 \$8 195 \$5 \$11 120 \$5 \$11 120 \$5 \$11 85 \$5 \$14 85 \$5 \$21 215 \$5 \$21 215 \$5 \$22 165		Slo	
S4 S13 80 S4 S14 105 S4 S20 190 S4 S21 115 S4 S22 165 S4 S22 165 S4 S23 105 S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S8 195 S5 S10 145 S5 S12 95 S5 S12 95 S5 S12 95 S5 S13 70 S5 S12 95 S5 S12 95 S5 S21 215 S5 S21 215 S5 S22 165 S5		Sll	70
S4 S13 80 S4 S15 130 S4 S20 190 S4 S21 115 S4 S21 115 S4 S22 165 S4 S23 105 S4 S23 105 S4 S24 155 S4 S25 200 S4 S25 200 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S8 195 S5 S1 170 S5 S1 120 S5 S1 120 S5 S1 120 S5 S21 215 S5 S21 215 S5 S22 165 S5 S23 115		S12	55
S4 S14 105 S4 S15 130 S4 S20 190 S4 S21 115 S4 S22 165 S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S28 310 S5 S6 35 S5 S6 35 S5 S7 70 S5 S10 145 S5 S10 145 S5 S11 120 S5 S12 95 S5 S13 70 S5 S14 85 S5 S20 235 S5 S21 215 S5 S22 165 S5 S24 145 S5 S24 145 S5 S26 310 S5 S26 310 S5 S26 310 S5 S27 200 S5 S28 285 S5 S28 <td>S4</td> <td>S13</td> <td></td>	S4	S13	
S4 S15 S4 S20 S4 S21 S4 S22 S4 S22 S4 S23 S4 S23 S4 S24 S2 S26 S4 S25 S2 S26 S4 S27 S4 S27 S4 S28 S4 S29 S3 35 S5 S6 S5 S8 S5 S8 S5 S10 S5 S10 S5 S11 S5 S12 S5 S12 S5 S13 S5 S14 S5 S20 S5 S21 S5 S21 S5 S24 S15 S21 S5 S24 S5 S24 S5 S24 S5 S24 S5 S26 S27 200 S5 S26 S27 200 S5 S28 S28 S28 S5 S29			
S4 S21 115 S4 S22 165 S4 S23 105 S4 S24 155 S4 S25 200 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S8 195 S5 S11 120 S5 S12 95 S5 S13 70 S5 S14 85 S5 S20 235 S5 S21 215 S5 S22 165 S5 S24 145 S5 S24 145 S5 S26 310 S5 S27 200 S5 S27 200 S5 S27 200 S5 S28 285 S5 S29 <td></td> <td>S15</td> <td></td>		S15	
S4 S21 115 S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S10 145 S5 S11 120 S5 S11 120 S5 S12 95 S5 S14 85 S5 S15 110 S5 S21 235 S5 S21 215 S5 S21 215 S5 S21 215 S5 S22 165 S5 S24 145 S5 S24 145 S5 S26 310 S5 S27 200 S5 S27 200 S5 S27 200 S5 S28 S29		S20	
S4 S23 105 S4 S24 155 S4 S25 200 S4 S26 265 S4 S27 220 S4 S28 310 S4 S29 330 S5 S6 35 S5 S7 70 S5 S8 195 S5 S10 145 S5 S11 120 S5 S12 95 S5 S12 95 S5 S14 85 S5 S15 110 S5 S15 110 S5 S21 215 S5 S21 215 S5 S21 215 S5 S22 165 S5 S24 115 S5 S24 145 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305		S21	
S4 S23 S4 S24 S4 S25 S4 S26 S4 S26 S4 S27 S2 S27 S2 S28 S4 S29 S5 S6 S5 S7 S5 S8 S5 S10 S5 S11 S5 S11 S5 S12 S5 S12 S5 S13 S5 S14 S5 S14 S5 S14 S5 S21 S5 S21 S5 S21 S5 S21 S5 S23 S5 S24 S5 S24 S5 S25 S26 310 S5 S26 S5 S26 S5 S27 S5 S26 S5 S26 S5 S28 S5 S28 S5 S29		S22	
S4 S24 S4 S25 S4 S26 S4 S27 S4 S28 S4 S29 S4 S29 S5 S6 S5 S7 S5 S8 S5 S10 S5 S11 S5 S11 S5 S12 S5 S13 S5 S13 S5 S14 S5 S14 S5 S20 S5 S21 S5 S21 S5 S21 S5 S21 S5 S21 S5 S21 S5 S23 S5 S24 S5 S25 S5 S26 S5 S26 S5 S27 S5 S28 S5 S28 S5 S28 S5 S28 S5 S29		S23	
\$4 \$25 200 \$4 \$26 265 \$4 \$27 220 \$4 \$28 310 \$4 \$29 330 \$5 \$6 35 \$5 \$7 70 \$5 \$8 195 \$5 \$9 170 \$5 \$10 145 \$5 \$11 120 \$5 \$11 85 \$5 \$12 95 \$5 \$13 70 \$5 \$13 70 \$5 \$13 70 \$5 \$12 95 \$5 \$12 95 \$5 \$21 85 \$5 \$21 \$215 \$5 \$22 165 \$5 \$24 145 \$5 \$26 310 \$5 \$26 310 \$5 \$28 285 \$5 \$29 305		S24	
\$4 \$27 \$20 \$4 \$28 \$310 \$4 \$29 \$30 \$5 \$6 \$5 \$5 \$7 \$70 \$5 \$8 \$195 \$5 \$10 \$145 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$12 \$95 \$5 \$14 \$85 \$5 \$21 \$25 \$5 \$20 \$235 \$5 \$21 \$215 \$5 \$22 \$215 \$5 \$22 \$215 \$5 \$24 \$145 \$5 \$25 \$190 \$5 \$26 \$310 \$5 \$26 \$310 \$5 \$26 \$29			200
\$4 \$28 \$310 \$4 \$29 \$30 \$5 \$6 \$5 \$5 \$7 \$70 \$5 \$8 \$195 \$5 \$8 \$195 \$5 \$10 \$145 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$12 \$95 \$5 \$12 \$95 \$5 \$14 \$85 \$5 \$14 \$85 \$5 \$14 \$85 \$5 \$110 \$20 \$5 \$21 \$215 \$5 \$22 \$165 \$5 \$22 \$165 \$5 \$24 \$145 \$5 \$25 \$190 \$5 \$26 \$310 \$5 \$27 \$200 \$5 \$28 \$285 \$5 \$28 \$285 \$5 \$29 \$305			265
\$4 \$29 330 \$5 \$6 35 \$5 \$7 70 \$5 \$8 195 \$5 \$9 170 \$5 \$10 145 \$5 \$11 120 \$5 \$11 120 \$5 \$12 95 \$5 \$12 95 \$5 \$14 85 \$5 \$14 85 \$5 \$15 110 \$5 \$20 235 \$5 \$21 215 \$5 \$22 165 \$5 \$22 165 \$5 \$24 145 \$5 \$25 190 \$5 \$26 310 \$5 \$27 200 \$5 \$28 285 \$5 \$29 305		S27	
\$4 \$29 \$30 \$5 \$6 \$5 \$5 \$7 \$70 \$5 \$8 \$195 \$5 \$10 \$145 \$5 \$10 \$145 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$11 \$120 \$5 \$12 \$95 \$5 \$13 \$70 \$5 \$14 \$85 \$5 \$14 \$85 \$5 \$15 \$110 \$5 \$20 \$235 \$5 \$22 \$165 \$5 \$22 \$165 \$5 \$24 \$145 \$5 \$24 \$145 \$5 \$26 \$310 \$5 \$27 \$200 \$5 \$28 \$285 \$5 \$29 \$305		S28	310
S5 S6 35 S5 S7 70 S5 S8 195 S5 S 9 170 S5 S10 145 S5 S11 120 S5 S12 95 S5 S12 95 S5 S13 70 S5 S14 85 S5 S20 235 S5 S21 215 S5 S22 165 S5 S22 165 S5 S24 145 S5 S24 145 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305			330
S5 S7 70 S5 S8 195 S5 S9 170 S5 S10 145 S5 S11 120 S5 S12 95 S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S24 145 S5 S25 190 S5 S27 200 S5 S28 285 S5 S29 305		S6	
S5 S8 195 S5 S9 170 S5 S10 145 S5 S11 20 S5 S12 95 S5 S13 70 S5 S14 85 S5 S14 85 S5 S20 235 S5 S21 215 S5 S22 165 S5 S24 145 S5 S24 145 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305			70
S5 S 9 170 S5 S10 145 S5 S11 120 S5 S12 95 S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305		S8	
S5 S10 145 S5 S11 95 S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305		S 9	170
S5 S112 95 S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S25 190 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305	S5	Slo	145
S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S24 145 S5 S25 190 S5 S27 200 S5 S28 285 S5 S29 305	S5	Sll	
S5 S13 70 S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S25 190 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305			95
S5 S14 85 S5 S15 110 S5 S20 235 S5 S21 215 S5 S22 165 S5 S23 115 S5 S24 145 S5 S25 190 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305	S5		70
S5 \$15 S5 \$20 \$23 \$21 \$5 \$22 \$5 \$23 \$5 \$24 \$5 \$24 \$5 \$25 \$5 \$26 \$5 \$27 \$5 \$28 \$5 \$29	S5		85
S5 S21 S5 S22 S5 S23 S5 S24 S5 S25 S5 S26 S5 S27 S5 S28 S5 S28 S5 S29	S5	S15	110
S5 S22 S5 S23 S5 S24 S5 S24 S5 S25 S26 310 S5 S27 S5 S28 S5 S28 S5 S29	S5		235
S5 S23 115 S5 S24 145 S5 S25 190 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305	S5	S21	
S5 S23 S5 S24 S5 S25 S5 S26 S5 S27 S5 S28 S5 S28 S5 S29	S5		165
S5 S25 190 S5 S26 310 S5 S27 200 S5 S28 285 S5 S29 305	S5	S23	
S5 \$26 \$310 S5 \$27 200 S5 \$28 285 S5 \$29 305	S5		
S5 S27 200 S5 S28 285 S5 S29 305	S5	S25	
S5 S27 S5 S28 S5 S29 S5 S29	S5		
S5 S28 285 S5 S29 305	S5		200
S5 S29 305	S5	S28	285
S6 S7 35	S5		305
	S6	S7	35

ac.	00	210
S6	S8	
S6	S9	185
S6	Slo	160
S6	Sll	135
S6	S12	110
S6	S13	85
S6	S14	60
S6	S15	75
S6	\$20	75 250
S6	S21	245
S6	S22	195
	222	143
S6	S23 S24	143
S6	S25	95
S6		140
S6	S26	325
S6	S27	180
S6	S28	250
S6	S29	270
S7	S8	240
S7	S9	215
\$7	Slo	190
s7	Sll	165
S7	S12	140
S7	S12 S13	115
\$7 \$7	S13 S14	90
5 / 07	015	
s7	S15 S20	65 285
S7		
S7	S21 S22	270
S7		220
S7	S23	170
S7	S24	120
S7	S25	105
S7	S26	355
S7	S27 S28	210 220
S7	S28	220
S7	S29	240
S8	S9	240 25
S8	Slo	50
S8	SII	75
S8	S12	100
56 S8	S12 S13	100 125
S8	S14	150
S8	S15	175
S8	S20	40
S8	\$21	45
S8	S22	95
S8	S23	145

\$8 \$8 \$8 \$8 \$8 \$8 \$8 \$9 \$9 \$9 \$9 \$9 \$9 \$9 \$9 \$9 \$9	\$24 \$25 \$26 \$27 \$28 \$29 \$10 \$11 \$12 \$13 \$14 \$15 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$11 \$12 \$13 \$14 \$15 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$11 \$12 \$13 \$14 \$15 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$31 \$28 \$29 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	195 240 120 265 345 380 250 75 105 60 90 140 1235 145 325 50 75 105 125 50 75 105 125 50 125 50 125 50 125 50 125 50 125 50 125 50 125 50 50 50 50 50 50 50 50 50 50 50 50 50
S10 S10 S11 S11.	S28 S29 S12 S13	330 95 50

Sll Sll	S26 S27	195 195
Sll	S28	270
Sll	S29	305
S12 S12	S13	25 50
	S14	75
S12	S15 S20	140
S12	S20 S21	135
S12 S12	S22	85
S12	S23	70 120
S12	S24	
S12	S25	165 220
S12 S12	S26	170
S12	S27 S28	245 280
S12 S12	S29	280
S13	S14	25
S13	S15	50 160
S13	S20 S21	160
S13	S22	110
S13 S13	S23	60
S13	S24	85
S13	S25	130 245
S13	S26	
S13	S27 S28	145 220
S13 S13	S29	255
S13 S14	S15	95
S14	S20	1 90
S14	S21 S22	185 135
S14	S23	85
S14	S24	60
S14 S14	S25	105
S14	S26	270 120
S14	S27	
S14	S28 S29	195 23o
S14		210
S15 S15	S20 S21	205
S15 S15	S22	155
S15	S23	105
S15	S24	60 85
S15	S25 S26	295
S15		

\$15 \$15 \$15 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	\$27 \$28 \$29 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$27 \$28 \$29 \$29 \$21 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$29 \$21 \$22 \$22 \$22 \$22 \$23 \$24 \$25 \$26 \$27 \$28 \$29 \$29 \$29 \$20 \$21 \$22 \$22 \$22 \$22 \$22 \$22 \$22	145 170 205 45 95 145 195 240 120 265 340 370 50 100 150 195 115 225 290 330 50 100 143 165 175 240 280 95 215 125 120 285 100 143 165 175 240 280 95 215 125 125 126 127 127 128 128 128 128 128 128 128 128
S25 S25	S26 S27 S28	310 145 95

S29 20

ZONE-6-AREA-42-SQUARES

! !S13! SHEAR			-			!	-MOLD-	-STORAGE-2!
! =====	•		Į		S1	1	!	
! ·			_			!	-	!
1 1			-		-		į	!53!
!!			Į.		į	!	!	!
!!			!		į		!	!
!!			FLAM	E-PL	ANER	į		į
!\$12 ! !			!		!		! F	AB-SHOP!
1 1 1 1			-		-	OPTICA	AL.	!\$2!
! SHAPE-TRAVO	-		AREA-42				!	
1 1 1 1 1	!					! \$8!!		ļ.
1 1 1	į						!	
! !	i						Ţ	!51!
1	į.						! S7 !	
! 606-TRACK	607-TRACK		•					
!!	!					! 56	!!WOLD	-STORAGE-1
1 1 1	1 ! !							!
! !S10!	! 59 !						! \$5!!	OFFICE
!!!!	!!!	(X)	(X)				!

•			ž.		
Name	Locatio	n	Body/Frag/PT		
WORKPLACES:					
ZDNE-6-AREA-42-SQUARES	35,21	0,0	•		
AREA-42	0,0	71,20			
FAB-SHOP	55,5	16,15			
MOLD-STORAGE-1	56,3	15,2			
MOLD-STORAGE-2	55,18	16,2			
OFFICE	60,1	11,2			
SHAPE-TRAVO ·	5,8	5,5			
SHEAR	10,18	3,2			
FLAME-PLANER	40,11	5,5			
. OPTICAL	50,10	5,2			
606-TRACK	12,0	0,10			
607-TRACK	22,0	0,10			
S1	68,6	3,2			
S2	68,10	3,2			
S3	68,15	3,2			
S4	64,0	0,0			
S5 ·	56,1	3,2			
. S 6	52,3	3,2			
S7	55,5	5,3			

S8 S9 S10 S11 S12 S13	50,8 20,0 10,0 40,17 0,7 3,18		
OBJECTS: PALLETS BOLSTERS	AREA-42 AREA-42		FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAU-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-L	AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42 AREA-42		03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER From	AREA-42 AREA-42 To		30,1 B 40,1 Steps
ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-A-AREA-42-SQUARES ZONE-6-AREA-42-SQUARES ZONE-A-AREA-42-SQUARES ZONE-A-AREA-42-SQUARES ZONE-A-AREA-42-SQUARES	A R E A - 4 : FAB-SHOP MOLD-STORA MOLD-STORA OFFICE SHAPE-TRAY SHEAR FLAME-PLAN OPTICAL 606-TRACK 607-TRACK S1 S2 S3 S4 S5 S6	AGE-1 AGE-2 VO	

ZONE-6-AREA-42-SQUARES	S7	
ZONE-6-AREA-42-SQUARES	S8	0
ZONE-6-AREA-42-SQUARES	S9	0
ZONE-6-AREA-42-SQUARES	Slo	0
ZONE-6-AREA-42-SQUARES	SII	0
ZONE-6-AREA-42-SQUARES		0
ZONE-6-AREA-42-SQUARES	S12	0
AREA-42	S13	0
AREA-42	FAB-SHOP	0
AREA-42	HOLD-STORAGE-1	0
AREA-42 AREA-42	MOLD-STORAGE-2	0
	OFFICE	0
AREA-42	SHAPE-TRAVO	0
AREA-42	SHEAR	0
AREA-42	FLAME-PLANER	0
AREA-42	OPTICAL	0
AREA-42	606-TRACK	0
AREA-42	607-TRACK .	0
AREA-42	S1 S2	0
AREA-42		0
AREA-42	S3	0
AREA-42	S4	0
AREA-42.	S5	0
AREA-42	S6	0
AREA-42	S7	0
AREA-42	S8	0
AREA-42	S9	0
AREA-42	Slo	0
AREA-42	Sll	0
AREA-42	S12	0
AREA-42	S13	0
FAB-SHOP	MOLD-STORAGE-1	0
FAB-SHOP	MOLD-STORAGE-2	0
FAB-SHOP	OFFICE	0
FAB-SHOP	SHAPE-TRAVO	0
FAEI-SHOP	SHEAR	Ő
FAB-SHOP	FLAME-PLANER	0
FAB-SHOP	OPTICAL	Ő
FAR-SHOP	606-TRACK	0
FAB-SHOP	607-TRACK	0
FAR-SHOP		0
FAB-SHOP	S1 S2	0
FAB-SHOP	S3	0
FAB-SHOP	S4	0
FAB-SHOP	S51	0
FAB-SHOP .	S6	0
FAB-SHOP	S7	0
FAB-SHOP	S8	0
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FAB-SHOP	S9	0
FAB-SHOP	Slo	0
	Sll	0
FAB-SHOP		
FAB-SHOP	S12	0
FAB-SHOP	S13	0
MOLD-STORAGE-1	MOLD-STORAGE-2	0
MOLD-STORAGE-1	OFFICE	0
MOLD-STORAGE-1	SHAPE-TRAVO	0
MOLD-STORAGE-1	SHEAR	0
MOLD-STORAGE-1	FLAME-PLANER	0
MOLD-STORAGE-1	OPTICAL	0
MOLD-STORAGE-1	606-TRACK	0
MOLD-STORAGE-1	607-TRACK	0
MOLD-STORAGE-1		0
MOLD-STORAGE-1	S1 S2	0
MOLD-STORAGE-1	S3	0
MOLD-STORAGE-1	S4	0
MOLD-STORAGE-1	S5	0
MOLD-STORAGE-1	S6	0
MOLD-STORAGE-1	S7	0
MOLD-STORAGE-1	S8	0
MOLD-STORAGE-1	\$9	0
MOLD-STORAGE-1	Slo	0
MOLD-STORAGE-1	S11	0
	S12	
MOLD-STORAGE-1		0
MOLD-STORAGE-1	S13	0
MOLD-STORAGE-2	OFFICE	0
MOLD-STORAGE-2	SHAPE-TRAVO	0
MOLD-STORAGE-2	SHEAR	0
MOLD-STORAGE-2	FLAME-PLANER	0
MOLD-STORAGE-2	OPTICAL	0
MOLD-STORAGE-2	606-TRACK	0
MOLD-STORAGE-2	607-TRACK	0
MOLD-STORAGE-2		0
MOLD-STORAGE-2	S1 S2	
		0
MOLD-STORAGE-2	S3	0
MOLD-STORAGE-2	S 4	0
MOLD-STORAGE-2	S5	0
MOLD-STORAGE-2	S6	0
MOLD-STORAGE-2	S7	0
MOLD-STORAGE-2	S8	0
MOLD-STORAGE-2	\$9	0
MOLD-STORAGE-2	Slo	0
MOLD-STORAGE-2	S11	-
	S12~	0
MOLD-STORAGE-2		0
MOLD-STORAGE-2	S13	0
OFFICE	SHAPE-TRAVO	0

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OFFICE	SHEAR	0
OFFICE	FLAKE-PLANER	0
	OPTICAL	0
OFFICE		0
OFFICE	606-TRACK	
OFFICE	607-TRACK	0
OFFICE	S1	0
		0
OFFICE	S2	
OFFICE	S3	0
OFFICE	S4	0
	S5	0
OFFICE		0
OFFICE	S6	
OFFICE	S7	0
OFFICE	S8	0
	S9	0
OFFICE		0
OFFICE	S10	
OFFICE	Sll	0
OFFICE	S12	0
	S13	0
OFFICE		0
SHAPE-TRAVO	SHEAR	
SHAPE-TRAVO	FLAME-PLANER	0
SHAPE-TRAVO	OPTICAL	0
SHAPE-TRAVO	606-TRACK	0
	607-TRACK	0
SHAPE-TRAVO		
SHAPE-TRAVO	S1	0
SHAPE-TRAVO	S2	0
SHAPE-TRAVO	S3	0
	S4	0
SHAPE-TRAVO		0
SHAPE-TRAVO	S5	
SHAPE-TRAVO	S6	0
SHAPE-TRAVO	S7	0
SHAPE-TRAVO	S8	0
		0
SHAPE-TRAVO	S9	
SHAPE-TRAVO	Slo	0
SHAPE-TRAVO	Sll	0
SHAPE-TRAVO	S12	0
	S13	0
SHAPE-TRAVO		
SHEAR	FLAME-PLANER	0
SHEAR	OPTICAL	0
SHEAR	606-TRACK	0
	607-TRACK	0
SHEAR	007 IKACK	0
SHEAR	S1 S2	
SHEAR		0
SHEAR	S3	0
	S4	0
SHEAR		0
SHEAR	S5	
SHEAR	S6	0
SHEAR	S7	0
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SHEAR	S8	0
SHEAR	S9	0
SHEAR	Slo	0
SHEAR	S11 S 1 2	0
SHEAR		0
SHEAR	S13	Ō
FLAME-PLANER	OPTICAL 606-TRACK	0
FLAHE-PLANER	607-TRACK	0
FLAME-PLANER	S1	0
FLAME-PLANER	S2	0
FLAME-PLANER	S3	0
FLAME-PLANER	53 S4	0
FLAME-PLANER	S5	0
FLAME-PLANER	S6	0
FLAME-PLANER	S7	0
FLAME-PLANER	S8	0
FLAME-PLANER	S9	0
FLAME-PLANER	Slo	0
FLAME-PLANER	S11	0
FLAME-PLANER	S12	0
FLAME-PLANER	S13	0
FLAME-FLANER	606-TRACK	0
OPTICAL	607-TRACK	0
OPTICAL	S1	0
OPTICAL	S2	0
OPTICAL	S3	0
OPTICAL	S4	0
OPTICAL	S5	0
OPTICAL	S6	0
OPTICAL	\$7	0
OPTICAL	S8	0
OPTICAL	S9	0
OPTICAL	Slo	0
OPTICAL OPTICAL	S11	0
OPTICAL	S12	0
OPTICAL	S13	0
606-TRACK	607-TRACK	0
606-TRACK	S1	0
606-TRACK	S2	0
606-TRACK	S3	0
606-TRACK	S4	0
606-TRACK	S5	0
606-TRACK	S6	0
606-TRACK	S7	0
606-TRACK	S8	0
606-TRACK	S9	0

606-TRACK 606-TRACK	Slo Sll	0
606-TRACK	S12	0
606-TRACK 607-TRACK	S13 S1	0
607-TRACK	S2	0
607-TRACK	S3 S4	0
607-TRACK 607-TRACK	S5 S5	0
607-TRACK	S6	0
607-TRACK 607-TRACK	S7 S8	0
607-TRACK	S9	0
607-TRACK 607-TRACK	Slo Sll	0
607-TRACK	S12	0
607-TRACK S1	S13 S2	60
S1	S3	160 150
S1 S1	S4 S5	115
S1	S6 -	105 70
S1 S1	S7 S8	80
S1	S9 Slo	155 195
S1 S1	Sll	255
S1	S12 S13	365 485
S1 S2	S3	100 220
S2	S4 S5	250
S2 S2	S6	260
S2 S2	S7 S8	300 340
S2	S9	100
S2 S2	Slo Sll	140 195
S2	S12	275
S2 S3	S13 S4	390 335
S3	S5	415 270
S3 S3	S6 S7	230
S3	S8 S9	210 215
S3 S3	Slo	2 4 0

22	all	110
\$3	S11 S12	110 175
S3		
S3	S13	295
S4	S5	35
S4	S6	60
S4	S7	95
S4	S8	120
S4	S9	195
S4	Slo	235
S4	Sll	290
S4	S12	375
S4	S13	495
S5	S6	20
S5	S7	55
S5	S8	90
S5	S9	165
S5	Slo	205 260
S5	S11	260
S5	Š12	335
S5	S13	455
S6	S7	35
S6	S8	65
S6	S9	110
S6	Slo	150
S6	SIL	205
S6	S12	280
50	S12 S13	400
S6	S8	80
S7	S9	120
S7		160
S7	S10	
S7	Sll	215 290
S7	S12	
\$7	S13	410
S8	S9	80
S8	Slo	120
S8	Sll	175
S8	S12	250
S8	S13	370
S9	Slo	40
S9	Sll	95
S9	S12	170
S9	S13	290
Slo	Sll	135
Slo	S12	130
Slo	S13	250
Sll	S12	75
Sll	S13	195

S12 S13

		ZON	E-9			
!!!!	AREA-74	! ! !	! !	! ! !RIGGING !!DEPT		SIDE-MACH
! ! !COPPER-SHOP!	! !SHEET-METAL-9	!! ! ! BHOP!!		!AREA-6! !	5/ !	REA-60
AREA-51		!	!ROADWAY	! !	!	1
	!BRKT! !SHOP!ELECT-S	! ! ! HOP! !	! ! !	! ! ! !PICKLER!	! INSP!	[A-87 ! !
	AREA-70	!	! (X) !	! ! BLDG !		! GARAGE
!		!!!	(X)	!AREA-91 !		
! !POLICE!A	REA-84 WAREHOUSE	!!! !!!		! ! -		
Name		Lo	cation	-	Boo	ly/Frag/PT
WORKPLACES: ZONE-9 ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHO RIGGING DEPT OUTSIDE-MACH SHOP. AREA-51	ΟP	47 49 59 63	,0 ,0 ,9 ,7 ,7 ,5 ,6 ,7 ,5 ,12 ,12 ,15	8,4 0,0 12,4 0,0		

AREA-60 AREA-65 AREA-70 AREA-74 AREA-84 AREA-87 AREA-91	58,14 13,0 46,14 10,0 10,6 25,0 0,10 35,10 0,0 34,5 55,5 16,8 45,4 10,0	
OBJECTS: PALLETS BOLSTERS	ZONE-9 ZONE-9	FRAG FRAG
EQUIPMENT: FRK-E FRK-L FRK-S SM-STRAD-E SM-STRAD-L SM-STRAD-L LG-STRAD-E LG-STRAD-L LG-STRAD-L	ROADWAY	03T 01T 02T 06T 04T . 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROADWAY ROADWAY	40,3 B 40,5
From	To .	Steps
ZONE-9	ROADWAY POLICE WAREHOUSE BRKT SHOP ELECT-SHOP PICKLER BLDG INSP BLDG. GARAGE COPPER-SHOP SHEET-METAL-SHOP RIGGING DEPT OUTSIDE-MACH	0 0 0 0 0 0 0 0 0

ZONE-9	SHOP 1	0
ZONE-9	AREA-51	0
ZONE-9	AREA-60	0
ZONE-9	AREA-65	0
ZONE-9	AREA-70	0
ZONE-9	AREA-74	0
ZONE-9	AREA-84	0
ZONE-9	AREA-87	0
ZONE-9	AREA-91	0
ROADWAY	POLICE	0
ROADWAY	WAREHOUSE	0
ROADWAY	BRKT	0
ROADWAY	SHOP	0
ROADWAY	ELECT-SHOP	0
ROADWAY	PICKLER	0
ROADWAY	BLDG	0
ROADWAY	INSP	0
ROADWAY	BLDG.	0
ROADWAY	GARAGE	0
ROADWAY	COPPER-SHOP	0
ROADWAY	SHEET-METAL-SHOP	0
ROADWAY	RIGGING	0
ROADWAY	DEFT	0
ROADWAY	OUTSIDE-MACH	0
ROADWAY	SHOP.	0
ROADWAY	AREA-51	0
ROADWAY	AREA-60	0
ROADWAY	AREA-65	0
ROADWAY	AREA-70	0
ROADWAY	AREA-74	0
ROADWAY	AREA-84	0
ROADWAY	AREA-87	0
ROADWAY	AREA-91	0
POLICE	WAREHOUSE	0
POLICE	BRKT	0
POLICE	SHOP	0
POLICE	ELECT-SHOP	0
POLICE	PICKLER	0
POLICE	BLBG	0
POLICE	INSP	0
POLICE	BLDG. GARAGE	0
POLICE		0
POLICE	COPPER-SHOP SHEET-METAL-SHOP	0
POLICE POLICE	RIGGING	0
	DEPT	0
POLICE POLICE	OUTSIDE-MACH	
LOUTCE	OOISIDE-MACU	0

POLICE	SHOP 1	0
POLICE	AREA-51	0
POLICE	AREA-60	0
POLICE	AREA-65	0
POLICE	AREA-70	0
POLICE	AREA-74	0
POLICE	AREA-84	0
POLICE	AREA-87	0
POLICE	AREA-91	0
WAREHOUSE	BRKT	0
WAREHOUSE	SHOP	0
WAREHOUSE	ELECT-SHOP	0
WAREHOUSE	PICKLER	0
WAREHOUSE	BLDG	0
WAREHOUSE	INSP	0
WAREHOUSE	BLUG .	0
WAREHOUSE	GARAGE	0
WAREHOUSE	COPPER-SHOP	0
WAREHOUSE	SHEET-METAL-SHOP	0
WAREHOUSE	RIGGING	0
WAREHOUSE	DEPT	0
WAREHOUSE	OUTSIDE-MACH	0
WAREHOUSE	SHOP .	0
WAREHOUSE	AREA-51	0
WAREHOUSE	AREA-60	0
WAREHOUSE	AREA-65	0
WAREHOUSE	AREA-70	0
WAREHOUSE	AREA-74	0
WAREHOUSE	AREA-84	0
WAREHOUSE	AREA-87	0
WAREHOUSE	AREA-91	0
BRKT	SHOP	0
BRKT	ELECT-SHOP	0
BRKT	PICKLER	0
BRKT	BLDG	0
BRKT	INSP	0
BRKT	BLDG.	0
BRKT	GARAGE	0
BRKT	COPPER-SHOP	0
BRKT	SHEET-METAL-SHOP	0
BRKT	RIGGING	0
BRKT	DEPT	0
BRKT	OUTSIDE-MACH	0
BRKT	SHOP ,	0
BRKT	AREA-51	0
BRKT	AREA-60	0
BRKT .	AREA-65	0

חאתת	AREA-70	0
BRKT		0
BRKT	AREA-74	
BRKT	AREA-84	0
BRNT	AREA-87	0
BRKT	AREA-91	0
SHOP	ELECT-SHOP	0
SHOP	PICKLER	0
SHOP	BLDG	0
SHOP	INSP	0
SHOP	BLDG .	0
SHOP	GARAGE	0
SHOP	COPPER-SHOP	0
S H O P	SHEET-METAL-SHOP	0
SHOP	RIGGING	0
SHOP	DEPT	0
SHOP	OUTSIDE-MACH	0
SHOP	SHOP 1	0
SHOP	AREA-51	0
SHOP	AREA-60	0
SHOP	AREA-65	0
SHOP	AREA-70	0
SHOP	AREA-74	0
SHOP	AREA-84	0
SHOP	AREA-87	0
SHOP	AREA-91	0
ELECT-SHOP	PICKLER	0
ELECT-SHOP	BLDG	0
ELECT-SHOP	INSP	0
ELECT-SHOP	BLUG.	0
ELECT-SHOP	GARAGE	0
ELECT-SHOP	COPPER-SHOP	0
ELECT-SHOP	SHEET-METAL-SHOP	
ELECT-SHOP	RIGGING	0
		0
ELECT-SHOP	DEPT	0
ELECT-SHOP	OUTSIDE-MACH	0
ELECT-SHOP	SHOP .	0
ELECT-SHOP	AREA-51	0
ELECT-SHOP	AREA-60	0
ELECT-SHOP	AREA-65	0
ELECT-SHOP	AREA-70	0
ELECT-SHOP	AREA-74	0
ELECT-SHOP	AREA-84	0
ELECT-SHOP	AREA-87	0
ELECT-SHOP	AREA-91	0
PICKLER	BLDG	0
PICKLER	INSP	0
PICKLER	B L D G	0

PICKLER	GARAGE	0
PICKLER		0
	COPPER-SHOP	
PICKLER	SHEET-METAL-SHOP	0
PICKLER	RIGGING	0
PICKLER	DEPT	0
PICKLER	OUTSIDE-MACH	0
PICKLER	SHOP .	0
PICKLER	AREA-51	0
PICKLER	ARE4-60	0
PICKLER	AREA-65	0
PICKLER	AREA-70	0
PICKLER	AREA-74	0
PICKLER	AREA-84	0
PICKLER	AREA-87	0
PICKLER	AREA-91	0
BLDG	INSP	0
_		0
BLDG	BLDG.	
BLDG	GARAGE	0
BLDG	COPPER-SHOP	0
BLDG	SHEET-METAL-SHOP	0
BLDG		0
	RIGGING	
BLDG	DEPT	0
BLDG	OUTSIDE-MACH	0
BLDG	SHOP 1	0
BLDG		0
	AREA-51	
BLDG	AREA-60	0
BLDG	AREA-65	0
BLDG	AREA-70	0
BLDG	AREA-74	0
BLUG	AREA-84	0
BLDG	AREA-87	0
BLDG	AREA-91	0
INSP	BLDG 1	0
		0
INSP	GARAGE	
INSP	COPPER-SHOP	0
INSP	SHEET-METAL-SHOP	0
INSP	RIGGING	0
INSP		0
	DEPT	
INSP	OUTSIDE-MACH	0
INSP	SHOP.	0
INSP	AREA-51	0
INSP	AREA-60	0
INSP	AREA-65	0
INSP	AREA-70	0
INSP	AREA-74	0
INSP	AREA-84	0
INSP	AREA-87	0

INSP	AREA-91	0
BLDG.	GARAGE	0
BLDG .	COPPER-SHOP	0
BLDG.	SHEET-METAL-SHOP	0
BLDG.	RIGGING	0
BLDG.	. DEPT	0
BLDG.	OUTSIDE-MACH	0
BLDG.	SHOP.	0
BLDG.	AREA-51	0
BLDG.	AREA-60	0
BLDG .	AREA-65	0
BLDG.	AREA-70	0
BLDG.	AREA-74	0
BLDG.	AREA-84	0
BLDG.	AREA-87	0
BLDG .	AREA-91	0
GARAGE	COPPER-SHOP	0
GARAGE	SHEET-METAL-SHOP	0
GARAGE	RIGGING	0
GARAGE	DEPT	0
GARAGE	OUTSIDE-MACH	0
GARAGE	SHOP 1	0
GARAGE	. AREA-51	0
GARAGE	AREA-60	0
GARAGE	AREA-65	0
GARAGE	AREA-70	0
GARAGE	AREA-74	0
GARAGE	AREA-84	0
GARAGE	AREA-87	0
GARAGE	AREA-91	0
COPPER-SHOP	SHEET-METAL-SHOP	0
COPPER-SHOP	RIGGING	0
COPPER-SHOP	DEPT	0
COPPER-SHOP	OUTSIDE-MACH	0
COPPER-SHOP	SHOP	0
COFFER-SHOP	AREA-51	0
COFFER-SHOP	AREA-60	0
COPPER-SHOP	AREA-65	0
COPPER-SHOP	AREA-70	0
COPPER-SHOP	AREA-74	0
COPPER-SHOP	AREA-84	0
COPPER-SHOP	AREA-87	0
COPPER-SHOP	AREA-91	0
SHEET-METAL-SHOP	RIGGING	0
SHEET-METAL-SHOP	DEPT	0
SHEET-METAL-SHOP	OUTSIDE-MACH	0
SHEET-METAL-SHOP	SHOP.	0

SHEET-METAL-SHOP	AREA-51	0
SHEET-METAL-SHOP	AREA-60	0
SHEET-METAL-SHOP	AREA-63	0
SHEET-METAL-SHOP	AREA-70	0
SHEET-METAL-SHOP	AREA-74	0
SHEET-METAL-SHOP	AREA-84	0
SHEET-METAL-SHOP	AREA-87	0
SHEET-METAL-SHOP	AREA-91	0
RIGGING	DEPT	0
RIGGING	OUTSIDE-MACH	0
RIGGING	SHOP 1	0
RIGGING	AREA-51	0
RIGGING	AREA-60	0
RIGGING	AREA-65	0
RIGGING	AREA-70	0
RIGGING	AREA-74	0
RIGGING	AREA-84	0
RIGGING	AREA-87	0
RIGGING	AREA-91	0
DEPT	OUTSIDE-MACH	0
DEPT	SHOP 1	0
DEPT	AREA-51	0
DEPT	AREA-60	0
DEPT	AREA-65	0
DEPT	AREA-70	0
DEPT	AREA-74	0
DEPT	AREA-84	0
DEPT	AREA-87	0
DEPT	AREA-91	0
OUTSIDE-MACH	SHOP 1	0
OUTSIDE-MACH	AREA-51	0
OUTSIDE-MACH	AREA-60	0
OUTSIDE-MACH	AREA-65	0
OUTSIDE-MACH	AREA-70	0
OUTSIDE-MACH	AREA-74	0
OUTSIDE-MACH	AREA-84	0
OUTSIDE-MACH	AREA-87	0
OUTSIDE-MACH	AREA-91	0
SHOP.	AREA-51	0
	AREA-60	0
SHOP.		
SHOP.	AREA-65	0
SHOP.	AREA-70	0
SHOP.	AREA-74	0
SHOP.	AREA-84	0
SHOP 1	AREA-87	0
SHOP .	AREA-91	0
		-
AREA-51	AREA-60	385

AREA-51	AREA-65	350
AREA-51	AREA-70	110
AREA-51	AREA-74	165
AREA-51	AREA-84	165
AREA-51	AREA-87	350
AREA-51	AREA-91	285
AREA-60	AREA-65	155
AREA-60	AREA-70	305
AREA-60	AREA-74	210
AREA-60	AREA-84	345
AREA-60	AREA-87	265
AREA-60	AREA-91	235
AREA-65	AREA-70	290
AREA-65	AREA-74	190
AREA-65	AREA-84	320
AREA-63	AREA-87	240
AREA-65	AREA-91	210
AREA-70	AREA-74	100
AREA-70	ARE4-84	45
AREA-70	AREA-87	140
AREA-70	AREA-91	130
AREA-74	AREA-84	135
AREA-74	AREA-87	190
AREA-74	AREA-91	180
AREA-84	AREA-87	185
AREA-84	AREA-91	155
AREA-87	AREA-91	80

!	WATER	! ! ! ! ! -!	!!!!!!!!
! ROAD-1 !		! ! ! ! ZONE-7 ! ! !	! ZONE-10 ! ! !
! ! ZONE-4 ! ZONE-2 ! ! !	! ZONE-5 ! ! ZONE-5 ! ! !	! ! ! ! ! !	!!!!
i (X) (X)	ROAD-2	!	; ! !
! ! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	! ! ZONE-6 ! !	! ! ! ! ZONE-8 ! ! !	! ZONE-9 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
Name	Location	-	Body/Frag/PT
WORKPLACES: YARD-ZONES ROAD-1 ROAD-2 WATER ZONE-1 ZONE-2 ZONE-3 ZONE-4 ZONE-5 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10	35,21 0,13 0,5 35,18 0,15 0,7 0,0 10,7 25,7 20,0 45,7 45,0 60,0	0,0 10,2 59,2 0,0 10,5 10,6 20,5 15,8 15,8 20,5 10,14 10,5 10,10	
OBJECTS: PALLETS BOLSTERS UNITS	YARŪ-ZONES YARŪ-ZONES YARŪ-ZONES		FRAG FRAG FRAG

YARD-ZONES

EQUIPMENT: FRK-E FRK-L FRK-S STRAD-E C STRD-L SM-STRAD-S LG-STRAD-E LG-STRAD-L LG-STRAD-L	YARD-ZONES	03T 01T 02T 06T 04T 05T 09T 07T 08T
OPERATORS: FORK-DRIVER STRADDLE-DRIVER	ROAD-2 ROAD-2	5,6 10,6 B
From	To	Steps
YARD-ZONES ROAD-1	ROAD-1 ROAD-2 WATER ZONE-1 ZONE-1 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ROAD-2 WATER ZONE-1 ZONE-1 ZONE-3 ZONE-1 ZONE-3 ZONE-4 ZONE-5 ZONE-6 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-7 ZONE-8 ZONE-10 WATER ZONE-10 WATER ZONE-10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ROAD-2	ZONE-2	0
ROAD-2	ZONE-3	0
ROAD-2	ZONE-4	0
ROAD-2	ZONE-5	0
ROAD-2	ZONE-6	0
ROAD-2	Z O N E - 7	0
ROAD-2	ZONE-8	0
ROAD-2	ZONE-9	0
ROAD-2	ZONE-10	0
WATER	ZONE-1	0
WATER	ZONE-2	0
WATER	ZONE-3	0
WATER	ZONE-4	0
WATER	ZONE-5	0
WATER	ZONE-6	0
WATER	ZONE-7	0
WATER	ZONE-8	0
WATER	ZONE-9	0
WATER	ZONE-10	0
-ZONE-1	ZONE-2	640
ZONE-1	ZONE-3	760
ZONE-1	ZONE-4	1190
ZONE-1	ZONE-5	1250
ZONE-1	ZONE-6	1180
ZONE -1	ZONE-7	1640
ZONE-1	ZONE-8	1560
ZONE-1	ZONE-9	1880 2240
ZONE-1	ZONE-10	2240
ZONE-2	ZONE-3	500
ZONE-2	ZONE-4	580
ZONE-2	ZONE-5	930
ZONE-2	ZONE-6	870
ZONE-2	ZONE-7	1340
ZONE-2	ZONE-8	1150
ZONE-2	ZONE-9	1540
ZONE-2	ZONE-10	1910
ZONE-3	ZONE-4	650
ZONE-3	ZONE-5	940
ZONE-3	ZONE-6	810
ZONE-3	ZONE - 7	1290
ZONE-3	ZONE-8	1180
ZONE-3	ZONE-9	1570
ZONE - 3	ZONE-10	1960
ZONE-4	ZONE-5	600
ZONE-4	ZONE-6	610
ZONE-4	ZONE-7	1250
ZONE-4	ZONE-8	1140
= 		

ZONE-4 ZONE-5 ZONE-5 ZONE-5 ZONE-5 ZONE-5 ZONE-6 ZONE-6 ZONE-6 ZONE-6 ZONE-6 ZONE-7 ZONE-7 ZONE-7 ZONE-7 ZONE-7 ZONE-8 ZONE-8	ZONE-9 ZONE-10 ZONE-6 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-7 ZONE-8 ZONE-9 ZONE-10 ZONE-10 ZONE-10 ZONE-10 ZONE-10	1330 1730 650 1000 880 1080 1470 1030 910 1130 1480 470 940 1310 820 1190
ZONE-8 ZONE-9	ZONE-10 ZONE-10	810

SECTION 3 MANUAL METHODS

1140. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING LG-STRAD-E TO ZONE-!
- 1141, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING LG-STRAD-E TO ZONE-(
- 1142. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING LG-STRADD-E TO ZONE-8

1143. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-6
- 1144. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING- LG-STRADD-E TO ZONE-7
- 1145. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-9

1146. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION .

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-1
- 1147. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING LG-STRAD-E TO ZONE-8
- 1148. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS-ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING LG-STRAD-E TO ZONE-8

1149. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING LG-STRAD-E TO ZONE-10
- 1150. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING LG-STRAD-E TO ZONE-9
- 1151. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER(BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING LG-STRAD-E TO ZONE-10

1152, TRANSPORT PALLET ON (LARGE) STRADLLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

- 1 TRANSPORT PALLET (EMPTY) FROM ZONE-9 USING LG-STRAD-E TO ZONE-1
- 1153. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S8
 - 1 TRANSPORT PALLET (EMPTY) FROM S8 USING LG-STRAD-E TO S21
- 1154. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S7

1 TRANSPORT PALLET (EMPTY) FROM S7 USING LG-STRAD-E TO S10

1155. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

- 1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING LG-STRAD-E TO AREA-87
- 995. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING LG-STRAD-L TO ZONE-7 LOWER
- 1005, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-L TO ZONE-6 LOWER

1009. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-L TO ZONE-10 LOV
- 1013. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET RAISE FROM ZONE-6 USING LG-STRAD-L TO ZONE-10 LOW
- 1014, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVEK' BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING LG-STRAD-L TO ZONE-8 LOWI

1018. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

- 1 TRANSPORT PALLET RAISE FROM ZONE-8 USING LG-STRAD-L TO ZONE-10 LOWER
- 1039. TRANSPORT PALLET ON (LARGE) S.TRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-3

- 1 TRANSPORT PALLET RAISE FROM ZONE-3 USING LG-STRAD TO ZONE-6 LOWER
- 1051. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-S TO ZONE-7 LOWER

1052. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

- 1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-S TO ZONE-8 LOWE
- 1058. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER HOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

- 1 TRANSPORT PALLET RAISE FROM ZONE-6 USING LG-STRAD-S TO ZONE-10 LOV
- 1063, TRANSPORT PALLET ON (LARGE) astraddle CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- *REPRESENTS MOVEMENT OF A SECURE LOADED
- * LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING LG-STRAD-S TO ZONE-10 LOV

1064. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF A SECURE LOADED
- * ...LAFIGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT ZONE-9
 - 1 TRANSPORT PALLET RAISE FROM ZONE-9 USING LG-STRAD-S TO ZONE-10 LOWER

SECTION 4 STANDARD TIME CALCULATION

4.1 TITLE SHEETS

TRANSPORT PALLET ON (LG) STRADDLE CARRIER AT ANY SHIPYARD TR

Titlesheet Orsganization List

Move

- 1140. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1141, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1142, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1143. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1144. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 11454 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1146. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1147. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1148. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPY/TRANSPORTATION REPRESENTS ELAPSED TIME
- 1149. TRANSPORT PALLET ON (LARGE) STRDDLE CARRIER (EMPTY) AT ANY SHIPYARD

- TRANSPORTATION
 REPRESENTS ELAPSED TIME
- 1150. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1151. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1152. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1153. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER -(EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1154. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1155. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 995. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1005, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1009. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1013. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 10144 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME

- 1018. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION REPRESENTS ELAPSED TIME
- 1039. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME
- 1051 1 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME
- 1052. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME
- 1058. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME
- 1063. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME
- 1064. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION REPRESENTS ELAPSED TIME

4.2 HOW TO CALCULATE TIME STANDARDS

M O S T OPERATION TIME CALCULATION

DETAIL/UNIT/F'ART	X	REV. LTR/BATE	X
PROCESS/OPER CODE		STANDARD CODE	X
PART NAME	LARGE STRADDLE CARRIE	ER	
SHIP CLASS	X	HULL	X
COST CLASS/JOB #	X	TRADE	TRANSPORTATION
GROUP (UNIT/ZONE)	X	WORK AREA	SHIPYARD
SUB-GROUP	X	WORK ZONE	X
SUB-SUB-GROUP	X	WORK CENTER	X
CREW/MACHINE	1 DRIVER	ASSET/MACHINE	
ITEM	X	SUB-ITEM	X
GEN. DRAWING	X	WORK ORDER	X
DET, DRAWING	X	SHEET	1
WORK PACKAGE	X	APPLICATOR	PP
OPER. DESCRIPTION	OPERATE LARGE STRADD	LE CARRIER ON A	A TYPICAL DAY
7:30 AM TO 12:00 NOON			
DATE	25-JUL-83	ISSUE #	1

Step Method Instruction

Free

¹ TRANSPORT PALLET ON (LARGE) STRADDLE.CARRIER (E(1155) MPTY)

^{*} REPRESENTS MOVEMENT OF AN EMPTY

^{* ...}LARGE STRADDLE CARRIER

^{* 9-84-1} TO 9-87-5 TO GAS PUMP

^{*} FILL GAS TANK

- 2 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(11,50) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 9-87-5 TO 8-58-7 TO BOILER SHOP
- 3 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1063) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-7 TO 10-5-1 TO DUMP
 - * PLATFORM EMPTY
- 4 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1151) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 8-58-7 TO BOILER SHOP
- 5 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1052) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-7 TO 5-34-8 TO 34 AREA
 - * PLATFORM PLATE
- 6 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1153) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - *...LARGE STRADDLE CARRIER
 - * 5-34-8 TO 5-34-21
- 7 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1005) 00SE)
 - * REPRESENTS) MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 5-34-21 TO 6-42-2 TO FAB SHOP
 - * SKIDS PLATES
- 8 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1143) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-2 TO 5-34-21 TO 34 AREA
- 9 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1143) MPTY)

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER
- * 5-34-21 TO 6-42-7 TO FAB SHOP
- 10 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1039) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-7 TO 3-6-1 TO 602 TRACK
 - * PLATE RACK PLATES
- 11 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1141) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 3-6-1 TO 6-42-7 TO FAB SHOP
- 12 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1147) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-7 TO 8-58-4 TO BOILER SHOP
 - * LOCAL LIFTS
- 13 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1148) MPTY)
 - * REPRESENTS MOIVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-4 TO 7-52-14 TO PIPE SHOP
- 14 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1014) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 7-52-14 TO 8-58-4 TO BOILER SHOP
 - * SKIDS PLATES
- 15 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1018) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-4 TO 10-6-2 TO 1-TRACK
 - * SCRAP-PAN
- 16 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1058) ECURE)

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ... LARGE STRADDLE CARRIER
- * 10-6-2 TO 6-42-7 TO FAB SHOP
- * PLATE RACK EMPTY
- 17 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1154) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-7 TO 6-42-10
- 18 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1013) OOSE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-10 TO 10-5-1 TO DUMP
 - * PLATFORM SCRAP-PANS
- 19 TRANSPORT PALLET ON (LARGE) STRASDDLE CARRIER (S(1064) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 9-84-1 TO WAREHOUSE
 - * PLATFOM EMPTY
- 20 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1152) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 9-84-1 TO 10-5-1 TO DUMP
 - * LIFT NOT THERE
- 21 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1152) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - *...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 9-87-5 TO GARAGE
 - * LUNCH

M O S T $\;\;$ OPERATION TIME CALCULATION

STEP	SA	FREQ	INTERNAL THU	EXTERNAL TMU	LOC #
1	0.00	1.00		6300.	1155
2	0.00	1.00		8500.	1150
2 3	0.00	1.00		19700.	1063
4	0.00	1.00		9800.	1151
5	0.00	1.00		17600.	1052
6 7	0.00	1.00		5500.	1153
7	0.00	5.00		77500.	
8	0.00	5.00		36500.	
9	0.00	1.00		7300.	1143
10	0.00	4.00		70400.	1039
11	0.00	4.00		34000.	1141
12	0.00	1.00		8500.	1147
13	0.00	1.00		7300.	1148
14	0.00	1.00		15500.	1014
15	0.00	1.00		19700.	1018
16	0.00	1.00		22000.	1058
1~	0.00	1.00		6300.	1154
18	0.00	1.00		22000.	1013
19	0.00	1.00	•	17600.	1064
20	0.00	1.00		8500.	1152
21	0.00	1.00		8500.	1152
MANUAL TIME(TMU)			0.	429000.	
ACTUAL PROCESS TIME(TMU)			٥.	0.	
FACTORED PROCESS TIME(TMU)			0.		
TOTAL INTÉRNAL TIME(TMU)			0.		

TITLE SHEET USED IN SETTING STANDARD: 0

M O S T OPERATION TIME CALCULATION

Engineered Operation Time Calculation

Type of Work		Elemental Per Time Allo			Allowance Time	Standard Time	
EXTERNAL MANUAL		4.290			0.000	4.290	
ASSIGNEE INTERNAL	(0.000>	()	(0.000) (0.000)	
PROCESS TIME		0.000			0.000	0.000	
STANDARD(HRS./CYCLE)	4.290			0.000	4.290	
PIECES PER CYCLE		1					
STANDARD HOURS						4.3	

M O S T OPERATION TIME CALCULATION

DETAIL/UNIT/PART	x	REV. LTR/DATE	X
PROCESS/OPER CODE	OPERATE	STANDARD CODE	X
FART NAME	LARGE STRADDLE CARRIE		
SHIP CLASS	x	HULL	x
COST CLASS/JOB #	x	TRADE	TRANSPORTATION
GROUP (UNIT/ZONE)		WORK AREA	SHIPYARD
SUB-GROUP	x	WORK ZONE	X
SUB-SUR-GROUP	x	WORK CENTER	х
CREW/MACHINE	1 DRIVER	ASSET/MACHINE	
ITEM	x	SUB-ITEM	х
GEN. DRAWING	х	WORK ORDER	х
DET. DRAWING	X	SHEET	1
WORK PACKAGE		APPLICATOR	
OPER. DESCRIPTION	OPERATE LARGE STRADDI	LE CARRIER ON A	A TYPICAL DAY
	12:30 PM TO 4:00 PM		
DATE	25-JUL-83	ISSUE #	1

Stem Miethod Instruction

Frea

- * REPRESENTS MOUEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER
- * 9-87-5 TO 5-34-21 TO 34 AREA

TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1005) 00SE)

¹ TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1145) MPTY)

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER
- * 5-34-21 TO 6-42-3 TO FAB SHOP
- * SKIDS PLATES
- 3 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1143) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-3 TO 5-34-21 TO 34 AREA
- 4 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1052) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 5-34-21 TO 8-58-4 TO BOILER SHOP
 - * PLATE RACK PLATES
- TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1142) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-4 TO 3-1-1 TO PLATE BLASTER
- 6 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(995) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 3-1-1 TO 7-75-3 TO PAINT SHOP
 - * PLATFORM PAINT
- 7 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1149) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - *LARGE STRADDLE CARRIER
 - * 7-75-3 TO 10-5-1 TO DUMP
- 8 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1009) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 5-34-10 TO 34 AREA
 - * PLATFORM TOOL BOXES
- 9 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1144) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY

- ...LARGE STRADDLE CARRIER
- * 5-34-10 TO 7-75-3 TO PAINT. SHOP
- 10 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1051) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * . ..LARGE STRADDLE CARRIER
 - * 7-75-3 TO 5-34-25 TO 34 AREA
 - * PLATFORM EMPTY
- 11 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1146) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 5-34-25 TO 10-5-1 TO DUMP
- 12 TRANSPORT PALLET (ln (LARGE) STRADDLE CARRIER (L(1018) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 8-58-8 TO BOILER SHOP
 - * PLATFORM EMPTY SCRAP-PANS
- 13 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1147) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 8-58-8 To 6-42-3 TO FAB SHOP
 - * LIFT NOT THERE
- 14 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1143) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 6-42-3 TO 5-34-21 TO 34 AREA
- 15 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1005) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 5-34-21 TO 6-42-3 TO FAB SHOP
 - * SKIDS PLATES
- 16 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1141) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER

- * 6-42-3 TO 3-2-3 TO 602 TRACK
- * LOCAL LIFTS
- 17 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1140) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 3-2-3 To 5-34-26 To 34 AREA
- 18 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (L(1009) 00SE)
 - * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 5-34-26 TO 10-5-1 TO DUMP
 - * PLATFORM SCRAP-PANS
- 19 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1152) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - * 10-5-1 TO 9-84-6 TO WAREHOUSE
- 20 TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (S(1064) ECURE)
 - * REPRESENTS MOVEMENT OF A SECURE LOADED
 - * ...LARGE STRADDLE CARRIER
 - * 9-84-6 TO 10-5-1 TO DUMP
 - * PLATFORM EMPTY
- TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (E(1152) MPTY)
 - * REPRESENTS MOVEMENT OF AN EMPTY
 - * ...LARGE STRADDLE CARRIER
 - **★** 10-5-1 TO 9-87-5 TO GARAGE
 - * END OF SHIFT

H D S T OPERATION TIME CALCULATION

STEP	SA	FREQ	INTERNAL TMU	EXTERNAL TMU	L.OC #
1	0.00	1.00		8500.	1145
2	0.00	1.00		15500.	1005
2 3	0.00	1.00		7300.	1143
4	0.00	1.00		17600.	1052
4 5 6 7 8	0.00	1.00		9800.	1142
6	0.00	1.00		19700.	995
7	0.00	1.00		9800.	1149
8	0.00	1.00		22000.	1009
9	0.00	1.00		8500.	1144
10	0.00	1.00		17600.	1051
11	0.00	1.00		9800.	1146
12	0.00	1.00		19700.	1018
13	0.00	1.00		8500.	1147
14	0.00	4.00		29200.	1143
15	0.00	4.00		62000.	1005
16	0.00	1.00		8500.	1141
17	0.00	1.00		8500.	1140
18	0.00	1.00		22000.	1009
19	0.00	1.00		8500.	1152
20	0.00	1.00		17600.	1064
21	0.00	1.00		8500.	1152
MANUAL TIME(TMU)			0.	768100.	
MANUAL TIME(THU)			•	7001001	
ACTUAL PROCESS TIME(TMU)			٥.	0.	
FACTORED PROCESS TIME(TMU)			0.		
TOTAL INTERNAL TIME(TMU)	•		0.		
					•

TITLE SHEET USED IN SETTING STANDARD: 0

M O S T OPERATION TIME CALCULATION

Ensineered Operation Time Calculation

Type of Work		mental Time	Percent Allowance		Allowance Time	Standard Time	
EXTERNAL MANUAL		3.391			0.000	3.391	
ASSIGNED INTERNAL	(0.000)	()	(0.000) (0.000)	
PROCESS TIME		0.000			0.000	0.000	
STANDARD <hrs. cycle)<="" td=""><td></td><td>3.391</td><td></td><td></td><td>0.000</td><td>3.391</td></hrs.>		3.391			0.000	3.391	
PIECES PER CYCLE		1					
STANDARD HOURS						3.4	

SECTION 5 DATA SYNTHESIS AND BACK-UP

5.1 SUMMARY

1140. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTA1. TMU 8500.

1141. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-11RIVER BEGINS AT ZONE-3

TOTAL TMU 8500.

1142. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRNSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL TMU 9800.

1143. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 7300 1

1144. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 8500

1145. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 8500.

1146. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 9800.

1147. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

TOTAL TMU 8500.

1148. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT.ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

TOTAL TMU 7300.

1149. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

* REPRESENTS MOVEMENT OF AN EMPTY
* ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

TOTAL TMU 9800.

1150. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

TOTAL TMU 8500.

1151., TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYAF TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

TOTAL TMU 9800,

1152. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT ZONE-9

TOTAL TMU 8500.

1153. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S8

TOTAL TMU 5500 1

1154. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARDL TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT S7

TOTAL TMU 6300.

1155. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

TOTAL TMU 6300.

995. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER STRADDLE-IIRIVER BEGINS AT ZONE-3

TOTAL TMU 19700.

1005+ TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-IIRIVER BEGINS AT ZONE-5

TOTAL TMU 15500.

1009. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 22000 1

1013. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-6

TOTAL TMU 22000.

1014. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: .4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

TOTAL TMU 15500.

1018. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
 - *...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-8

TOTAL TMU 19700.

1039. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

TOTAL TMU 17600,

1051, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYAR TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 17600,

1052. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD

TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER STRADDLE-DRIVER BEGINS AT ZONE-5

TOTAL TMU 17600 l

1058. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- *x REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

TOTAL TMU 22000,

1063. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

TOTAL TMU 19700.

1064. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSFORMATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

TOTAL TMU 17600.

5.2 SYNTHESIS AND ANALYSIS

1140, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING LG-STRADD-E TO ZONE-5 Al S6 T24 LO T54 LO TO AO 1.00 8500.

TOTAL TMU 8500.

1141. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM ZONE-3 USING LG-STRADD-E TO ZONE-6 Al S6 T24 LO T54 LO TO AO 1.00 8500

TOTAL TMU 8500.

1142, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET (EMPTY) FROM(ZONE-3 USING LG-STRAD-E TO ZONE-8 Al S6 T24 LO T67 LO TO AO 1.00 9800,

TOTAL TMU 9800.

1143. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOUEMENT OF AN EMPTY
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-6 Al S6 T24 LO T42 LO TO AO 1000 7300 l

TOTAL TMU 7300.

1144. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-7 Al S6 T24 LO TS4 LO TO AO 1.00 8500

TOTAL TMU 8500 1

1145. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TO ZONE-9 Al S6 T24 LO T54 LO TO AO 1.00 8500.

TOTAL TMU 8500.

1152, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET (EMPTY) FROM ZONE-9 USING LG-STRAD-E TO ZONE-10 Al S6 T24 LO T54 LO TO AO 1.00 8500.

TOTAL TMU 8500,

1153. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-S3

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE DRIVER BEGINS AT S8

1 TRANSPORT PALLET (EMPTY) FROM S8 USING LG-STRAD-E TO S21 A1 S6 T24 LO T24 LO TO 40 1,00 5500

TOTAL TMU 5500]

1154. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT S7

1 TRANSPORT PALLET (EMPTY) FROM S7 USING LG-STRAD-E TO S10 Al S6 T24 LO T32 LO TO AO 1.00 6300.

TOTAL TMU 6300.

1155, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT AREA-84

1 TRANSPORT PALLET (EMPTY) FROM AREA-84 USING LG-STRAD-E TO AREA-Al S6 T24 LO T32 LO TO AO 1.00 6300 l

TOTAL TMU 6300.

995, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING LG-STRAD-L TO ZONE-7 LOW Al S6 T1 L10 T173L6 TO AO 1.00 19700.

TOTAL TMU 19700.

1005. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT, PALLET RAISE FROM ZONE-5 USING LG-STRAD-L TO ZONE-6 LOW Al S6 T1 L10 T131L6 TO AO 1.00 15500.

TOTAL TMU 15500.

1146. TRANSPORT PALLET ON (LARGE) STRADULE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-URIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET (EMPTY) FROM ZONE-5 USING LG-STRAD-E TCI ZONE-10 Al S6 T24 LO T67 LO TO A0 1.00 9800 1

TOTAL TMU 9800.

1147. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER HOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET (EMPTY) FROM ZONE-6 USING LG STRAD-E TCI ZONE-8 Al S6 T24 LO T54 LO TO AO 1.00 8500.

TOTAL TMU 8500,

1148. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING LG-STRAD-E TO ZONE-8 Al S6 . T24 LO T42 LO TO AO 1.00 7300.

TOTAL TMU 7300.

1149. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-7

1 TRANSPORT PALLET (EMPTY) FROM ZONE-7 USING LG-STRAD-E TO ZONE Al S6 T24 LO T67 LO TO AO 1.00 980

TOTAL TMU 980

1150. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-BRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING LG-STRAD-E TO ZONE Al S6 T24 LO T54 LO TO AO 1.00 850

TOTAL TMU 850

1151, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (EMPTY) AT ANY SHIPYA TRANSPORTATION

PER MOVE OR LIFT OFG: 4 22-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF AN EMPTY
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET (EMPTY) FROM ZONE-8 USING LG-STRAD-E TO ZONE Al S6 T24 LO T67 LO TO AO 1.00 9800

TOTAL TMU 9800

1009. TRANSPORT PALLET ON (LARGE) STRAIIRLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-L TO ZONE-10 LOWER Al S6 T1 L10 T196L6 TO AO 1.00 220004

TOTAL TMU 22000.

1013. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANPORT PALLET RAISE FROM ZONE-6 USING LG-STRAD-L TO ZONE-10 LOWER Al S6 T1 L10 T196L6 TO AO 1.00 22000 1

TOTAL TMU 22000.

1014. TRANSPORT PALLET ON (LARGE) STRAIIDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOUE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-7

1 TRANSPORT PALLET RAISE FROM ZONE-7 USING LG-STRAD-L TO ZONE-8 LOWER Al S6 T1 L10 T131L6 TO AO 1.00 15500.

TOTAL TMU 15500.

1018. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (LOOSE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A LOOSE LOADED
- *...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING LG-STRAID-L TO ZONE-10 LOW Al S6 T1 L10 T173L6 TO AO 1.00 19700.

TOTAL TMU 19700.

1039." TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEHENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-3

1 TRANSPORT PALLET RAISE FROM ZONE-3 USING LG-STRAD-S TO ZONE-6 LOWE Al S6 T1 L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600,

1051. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-S TO ZONE-7 LOWE: Al S6 T1 L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600,

1052, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-5...

1 TRANSPORT PALLET RAISE FROM ZONE-5 USING LG-STRAD-S TO ZONE-8 LOWER Al S6 T1 L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600

1058. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIUER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-6 USING LG-STRAD-S TO ZONE-10 LOWER Al S6 T1 L10 T196L6 TO AO 1.00 22000,

TOTAL TMU 22000.

1063. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRAIIDLE-DRIUER BEGINS AT ZONE-8

1 TRNSPORT PALLET RAISE FROM ZONE-8 USING LG-STRAII-S TO ZONE-10 LOWER Al S6 T1 L10 T173L6 TO AO 1.00 19700.

TOTAL TMU 19700.

1052. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-S

1 TRANSPORT P.ALLET RAISE FROM ZONE-5 USING LG-STRAD-S TO ZONE-8 LOW Al S6 TI L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600.

1058. TRANSPORT PALLET ON (LARGE) STRDDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-6

1 TRANSPORT PALLET RAISE FROM ZONE-6 USING LG-STRAD-S TCI ZONE-10 LOI Al S6 T1 L10 T196L6 TO AO 1.00 22000.

TOTAL TMU 22000.

1063. TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARI TRANSPORTATION

PER MOVE OR LIFT OFG: 4 20-JUL-83

REPRESENTS ELAPSED) TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-8

1 TRANSPORT PALLET RAISE FROM ZONE-8 USING LG-STRATD-S TO ZONE-10 LOV Al S6 T1 L10 T173L6 TO. AO 1.00 19700.

TOTAL TMU 19700,

1064, TRANSPORT PALLET ON (LARGE) STRADDLE CARRIER (SECURE) AT ANY SHIPYARD TRANSPORTATION

PER HOVE OR LIFT OFG: 4 20 JUL 83 REPRESENTS ELAPSED TIME

- * REPRESENTS MOVEMENT OF A SECURE LOADED
- * ...LARGE STRADDLE CARRIER

STRADDLE-DRIVER BEGINS AT ZONE-9

1 TRANSPORT PALLET RAISE FROM ZONE-9 USING LG-STRAD-S TO ZONE-10 LOWER. Al S6 T1 L10 T152L6 TO AO 1.00 17600.

TOTAL TMU 17600.

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